February 1986

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WHAT'S GOING ON Amiga lounch date annuanced, 128 cets Irode In deal, Max Headragm - the come ond everything else that's going an in the Commadate universe

G FORCE REVIEWS "Seconds away, round 1". Rock 'n Wrestle Is

here and the G force pull it to the test, Shadowire II. Outlaws, Deus Ex Machina, Karonis Riff, Mercenary, plus previews of the Porodraid sequel, Uridium, Swords and Sarcery and Fairlight.

PEOPLE

Computer Magic

Shart type-ins to make your 64 do welld and wonderful things it's new, It's fun, so what are you walting far?

TOP SECRET II

codes and messages for any Commodare computer

Epyx Tales

Our Stateside reporter billings you the Inside story on Epyx, America's top games company The people, the new games, the whole stary - In Commadore User first - as you'd expect.

FEEDBACK More gripes, likes, and assorted opinions on your very own page this month

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74 BUSINESS 128 C128 software round up. Complete guide to all the useful soltware for your new Commodore, including news at tree CPM software

TOMMY'S TIPS Stuck with a technical problem on your Commodore Irustrated, battled, conjused? Tommy is only a letter away as eight lucky readers have found out this month.

ABC 47,869

Jan June 1995



PINGPIONG



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You can almost feel the tension of the lug match breaking through the screen. . . the expectant crowd is almost onto of you'll you rearn the service with a Top-sin Backhant, the her a Forehand Back-spit, the ball bounces high from your opponent's looping, defensive lob. . [MASSE] . . . great shot opens the score . . . but this so may your text pound Play head to head or against the computer in this Konamis' first and best

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Max Headroom Game

Argus saftware are praducing a camputer game based an that verbase mixture of man and machine, Max Headraam.

The game is based closely on the

recently released on video. The film which owes a lot to the brilliant American Flagg comics, concerns a TV reporter who discovers too much about his company producing subliminal adverts and is turned into

The game, Argus say, will tollow the tilm tairly closely with you having to and get Max out by breaking various security codes and puzzles

Max Headroom will go on sale in early '86 at £7.95

C128 trade-in offer

By naw, yau'll all have naticed Cammadore's advert far its 128 trade-in deal; yau get 250 aff a 128 by handing in yaur ita (Cammadore 64, if yau trade in a nan-Cammadore machine, yau get a free datasetic instead.

Obviously this is just a dressed up price reduction - much needed since models are much cheaper, Still, the idea makes good sense since you're already getting a 64 in the new 'upgraded' machine. According to Commodore UK marketing boss, Chris Kaday 'we wanted to make it easier for people to upgrade

That's good news for buyers, but some dealers are already complaining about getting a raw deal from Commodore — which means they're not making enough money. On top of that, they've got the added problem of returning those old and mouldy

 And what will Commodore do with all those genatric returned machines? Rather unsportingly, Chris Kaday won't say. We've got a pristine copy of Melbourne House's Rock'n Wrestle game waiting for whoever sends us the 'most perceptive' suggestion

■ Shorts ● Super Languages: The new Super Pascal and Super Clanguages for the 64/128 from First Publishing Pascal ià a camplete developeditor, campiler, assembler, ga-faster disk operating

system (DOS), debugging and monitar aids. There's olso a comprehensive 220-page manual. Super-C hos editar. compiler, linker and equally documentation including an Mare info from First Software on 07357 5244.

The "almost everything modem"

tt you're unsure which of the many modems around will fit your 64 or 128. Miracle Technology may have the answer, with its new 64 Multimodern. The device simply plugs into the cartridge port on your micro and into your phone socket by means of the attached cable

For those of you in the know, Multimodem has autodial and auto-



answer, supports CCITT V21/23 and Bell 103 standards and handles baud rates of 300/300, 1200/75 and 75/1200 Contused? Suffice to say it lets you access Prestel, Micronet, Microlink, bulletin boards, telex and user to user communications. But you'll need £116 to buy it - and it won't let you access Compunet. More details on 0473 216141.



Amiga delayed

Amiga fans will be disappainted at Cammadoro's annauncement that its new wander-micra wan't until June. Limited supplies configured for the Amorican NTSC IV standard will be available by March—but you wan't be oble to cryidea.

Of course, later Amigas will work under the UK PAL system, but it's still not decided where this "European" model will be manufactured. By the time it rolls off the assembly lines the remarkable enthusiasm it continues to generate may be going stale.

The better news is that Commodore is marketing three basic entry-level software packages for the machine Called Textcard, Graphicalf and Musicardt, Hey're already available in the States at 579 each For professional graphics use, Electronic Arts has produced Debure Paint At \$129, at is the only package that really laps the Ampags outstanding graphics and he Ampags outstanding graphics and word is that Commodore will have available to the Commodore will have around 100 titles by March – home.

On the business front, news that

major US software houses like Lotus and Ashton-Tate aren't bothering with the Amaga, may den't its business potential a little Commodore is selling its PC emulation disk at 999 in the hope of grabbing some of the IBM PC market. Although emulation is done completely through software, some programs won't run as guickly on the

Frantic Latters from Plus'4 and C16 owners freming about the software support and the future of their micros are a comman occusence in our office, or a comman occusence in our office, from of Vanticeppells. The Lead-board distribution have taken it upon themselves to build-up o comprehensive lat of software which they similate to sall for these two impovershed machines. For more 3023 627 1824, but the command of the comman

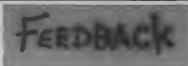
Club Careare. Ever heard of the Sinthis Campouter Society! This ougst body is through omake it with the younger generation by setting up the Astociation of Towns Campouter Enthusiant — AVC Et ay ou. To jour, you a hondbook plus a monthly magazine "joucked with competitions, articles, special offers" — must have get the fields from ut. There's so lot a cade of a conduct to shade by. More

Amga as they do on the PC and it won 1 let you use any of the Amga's extra tackites — sounds dumb British software houses, though, like Pegasus and Precision are preparing (custom' software for the Amga Commodore asserts that many more software houses are beavering away (there's around 80 Amgas in the UK now!

The general level of interest was confirmed in December at the lush three-day Amiga Developers' Conterence in Eastbourne, attended by around 100 British tirms, most of them involved in business



months to develop, was groupout and interfered resident to a feature spirit and and under months to develop, was groupoutchily designed to fit the pain of your hard and under microwitches trained 10 million times each. What could it be? Welf, it's the new Konk Spredight particle, you are not this lawny of suchney operationation for past £12.5%. Konks readon it's so reliable, they're princip you a 12 month "no publish" wassested. Septide particle you are so that the particle particle properties.



C16 dream

Dear Commodore User. We are the proud owners of the C16 and we find your magazine inter esting, but we would. of the C16 games

Like many of our . school friends we find Dear Commodore User, that there is not many I am sure that you have games published in noticed the rapid decline marazines that we can of the home computer inuse; so we are writing on dustry. Prices are being behalf of all Commodore alashed, extra items for C16 users for more use with the computer information, such se are included "free" with

Swindon. Wilte. Fret not and turn to the bably join it). Newa page.

Watson.

Foreign exchange

Dear Commodore User. In reference to the August issue of Commodore User, in the let-

The man that writes about holding the record for returning Commodore 64's. He may have the record for returning them, but I think I hold the record for travelling distances to return four (4) machines I work in Saudi Arabia

and travelled 240 kilometres each way to buy a Commodore 64, 1541 and a Star SG-10C printer. Upon getting the machine home I found out that the 64 didn't work and had to take it back to exchange. After aix round trips. I managed to get a shirt's in winter! Do perfectly good home machine that works.

there ere any readere that are also in Saudi and Conor McCarthy. if there are any "Computer Bulletin Boards" in Eire.

the Taif or Jeddah area. Richard Weiss PO Box 225.

Taif

Saudi Arabia. Phew, anyons able to top that? We spoke to a however, like to see more reader who's had five 128s already.

A cynic writes

games and charts. it or the machines are Lisa, Collett and Andrea simply taken off the market (e.g. the Vic 20, and after Christmas the CI6 and Plus/4 will pro-So

home computer manufacturere are now trying to break into the business market (e.g. Commodore with the Amiga and PC. Atari with the ST and Amstrad with it's new word proneesor). Manufacturers are leaving the homecomputer market (or what's left of it) behind. Will the 64 be next to go? Will Commodore eign this machine's deeth warrant in favour of the more busineselike 128? 'Never!" you cry. "It's too popular!" So was the Vio 20, remember? I 64 will be around for a

while longer. Oh, and congratulaly intereeting magazine. But why T-shirte as out of your window. It's programs. winter. No-one wears Tnext summer.

Longford.

· Desperate cynicism in evidence here, but we're all cynics here, too. The 64 is safe for a while though.

A made-up letter Dear Commodore User. I would like to say that your magazine is ace,

hrill, fab, etc. I could go on forever giving you more and more complements.

I have written to ask you if you could help me Ireland.

I reckon that they are proving all the time. written by fellow Commodore User readers. To stop the argument between us, could you Dear Commodore User,

Newport, Gazent

You don't think wa'd fall £1.95! for a trick like that, do R. Shukla,

Same thoughts Dear Commodore User.

First, I would like to say Dear Commodore User, that yours is the best I would like to use this hope however, that the computer magazine for way of informing you have areade game 24 hours a day. tions on your wonderful- reviews, an adventure column, news, technical system is S.B.B.S. Aber-But why T-shirts as information, program deen and it has got prizes for letters? Look listings — and business features like down-

> nore it anyway, and as a ceas S.B.B.S. is: few pages on the subject 0224-781919. Noel Gadcan't possibly compare do, Aberdeen.

devoted to businees soft ware, anyone interested in it will buy one of the bueineee magazinee in

Your competitions are good, but could you make them a bit harder? Then people who couldn't answer the questions would not have to waste a stamp and envelope, and those who could would have a better chance of winning. Also, could you print the coupons opposite the ads rather then reviews?

In reaponee to Darryl Webb's letter in the November issue, better to have fun zapping aliens in computer games than use violence against people instead. And there are planty of games around which do Russell Wallace.

Co. Dublin.

solve a problem I have. a You'd be surprised My friend and I have how many people read been arguing about your our business page. We Feedback page, he are a user magazine and reckens that all those let- for that reason we try ters have been made up and cater for everyone. by Commodore User, but Not sasy, but we're im-

Space reply

please, please print my Ref: space invader letter letter to prove that I'm C.J. Hart, in December right. issue. The game ia Daniel Hulbert, available in Kettering Woolworthe on cartridge. Price - wait for it -

Bothwell. Kettering. Northants.

Bulletin Boord

snyone with a Com- that my special bulletin modore computer. You board service is on line The name of the

loading, electronic mail-Why clutter up a section It runs on a 300 baud they? I take a medium computer magazine with rate, is full duplex, 8 bit, I would like to know if sized one. I'll save it for business information? no parity. Finally, the Most of your readers ig- telephone number to acJoin Daley in these 3NEW arcade events to test your skill and stamina



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Rock 'N Wrestle Commodore 64 Methourne House Price £14 95/disk £9.95/cass

Rock 'N Wrestle from Melbourne House "the earne people that brought you 'Way of the Exploding Fist'

bring you the eequal to Fist, Thet's e tough set to follow and MRH have to be gratty confident they can deliver the goods with their wrestling game to openly invite comperieons with the eward winning Karate

Fist has already scooped the Seturday Superstore Award for beet geme of 1985 and is being widely tipped to sweep the board et the Computer and Video Gemes Magazine - Golden

All of this adds up to sky high expectations on the part of gamers for Rock 'N

To find out if Rock 'N Wreetle reelly does nack the punch, Eugene Lecsy went on a cresh course in Rock 'N Wrestling at Melbourne House's UK office in Richmond, Surrey,

The first thing that strikes you when you wrestle with the joyetick in Rock 'N Wrestle is that it is no game for lezy playere.

Despite the claim in the Instructions that R&W is not a 'complex game to play" you are going to have to put in a lot of practice before you mester the potential 26

But that should gut no one off because it le this veriety of potential moves that sets the game apart from any other one-on-one combat Just as in Way of the Ex-

ploding Fist the verlous moves era executed by a combination of the eight possible positions on the oyatick and by pressing - or not preseing - the fire butwould be correct - for certain of the moves can only be Implemented after other DZ85



Flying Eagle climbs the ropes to perform the spectacular Turnbuckle Fly

For example, you cannot ettempt an Aeroplane Spin. Pile Driver, or Body Slem ceesful grab. Equelly you cennot attempt to pin your opponent to the ground to get a pin fell without first

The total list of moves in R&W is as follows and I am not going to tell you how to do them because I don't know (not yet, enyway) but I

The Moves

Asroplana Spin - Sam opponent abovs your head. Wiggling the joystick makes him that feetor to the cenves. Armsoln - Looke more like a Highland fling sa the wrestlers

this one to wiggle testinat and Atomic Drop - Grab from behind, left in a beer hing, then Back Breeker - Same as abovo only bringing other wrestler Tumbucide Fly - Most excrting

rope on the cornerstons and then fling yourself - brd-like your opponent Booring ham in Suplex - Standard wrestling lift Reverse Soplex - Over the shoulder, backwards life and Stump - Kicking vonr opponent whilst he's on the cenves -

Body Stam - Watch the whole ring shake as you lift your good. nent high above your head and slem him into the convas. Handlock - Grab your concennt Pile Driver - One of the most the gems. Grab your opponent, over, and thrust him head first in-

An extended Flying Body Press - Dive at your opponent'e shonidara torcino McCoy demonstrates the Aeroplane Span

Georgeous Greg is about to hit the deck again as Red Neck

Kick, Handbott, Knee Drop, Knee Kick, Charge, Drop Kick, and Arm Twist — all self explanitory.

Forearm Jolt — this is a weakening blow to your opponent's

Fnii Nelson - "strength move

Elbow Drop - Lift your albow with force onto your appearant Pin - The key to victory When your opponent is down on him to

The Wrestlers Gorgeous Greg - That's you the holidsome, blond, hero Rednack McCov - Your first on ponent and a particularly tough



Southern red nack he is too.
Molotov Milck Naxt up — the
one ayad, ahiny haadad,
powerhouse who packs a meen
head hurt.

Angry Abdul — You'd be engry too if you were the lest in line to receive any of the family's huge of wealth Abdul likes to cheer blimself up by practising hee favourite wreatling move — the

L.A. Bruca — This cool customer from the West Coast looks as if he just asceped from the Villege Paople. Wrostling speciality the accopiese spin. "Whan ... emish 'em into the capue it".

like wow man? A The Texas own to the work of the texas own to the texas own the texas ow

se the Turnbuckie Fly.

Bad Barney Frouble — The
mystery mesked man is a mean
opponent. Specialises in the
Clothes line, of which ho says, "S

Lord Toff — Your lenal opponent and the toughest of them ell. This aristocratic English gentleman knows ell the moves, and executes them all with each

Conclusion

Describing the moves and the opponents only really scretches the surface of Rock 'N Wrestle

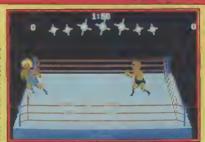
There are bags of stretegy besides. Stalking your opponent eround the ring, laerning to atrike at just the right moment, when to use certein moves and when not to, and how and when to use the

Graphically there are several additions frills like the camere fleshes that go off when a particularly ex-

citing move is implamented.

There is also the music —
the rock referred to in the titia. I noticed two different
pieces as I played, though I
must admit they didn't sound

Compared to Way of the Exploding First the graphics



Gorosous Greg comes off the ropes with force but Molotov Mick is ready for him.



Greg is decked again - this time by the world chempion grappler. Lord Toff

do not look quite as crisp. The fact that R&W has the strending and of the period of the strending and the strending and the strending and the strending and the strending are the animation. But this is not to say the

graphics are in any way inferior. When Flying Eagle leaps from the top ropes it is one of the most exciting moves I have seen yet in any

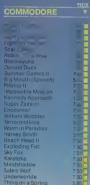
64 game. Like Fist, R&W takes you into e whole new ere of 64 ercede games. Games that ere super sophisticated, that can be played time and time again. Games that will lest. Eugana Lacey



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crereen Scene Screen Scene Screen Scene S

Outlaws Commodore 64/128 Ultimate Price: £9.95/pass

There's still a certam buzz of exotemant in our office when we loed up an Littmete game for the first time. A clustar of reveticity weary reviewers huddle expectently expund our battered office

As the opening jingle starts to play a tustile for the joystick ensues and voices are raised. Half on hour later the 64 is deserted and I am left to write the raview by myself

The sauson for the 2 Disappore tment. Messive dreappointment at what I can hardly believe is an

Ultimate game. It's ell very sed really when you look at Outlews It is just a shoot 'em up on horsebeck, You play the part of the Lone Bider, a mysterious gunmen. Helevensent to rid the Wild West of

crimmals, Indiens, and other esserted stubble hearded

The opening screen tells you that you are now entenne Delton geng territory. The geng called towards you every few seconds with their guns blezing. To duck the oun fire, you oull back on the joystick. Pop up soam and let them have a burst of their own medicine Points are earned by grounding the mounted banders Outlews is a horizontally

scrolling game. Not a very extensive one. You start the oame with four Lone Riders - extras can be earned by scoring highly. Your horse can gellop, center, Wilk and sump. It will also throw you head first towards the ground should you hanned to nde into one of the felien trees



'Outlews . . just a shoot 'em up on horsebeck

There are really just three parts to the came - the desert, the indren encomponent and the town hide emongst the citizens, taking not shots at the Lone Rider as they mengle with the crowd.

draw here. The outlews dodge Into view for a couple of seconds and take pot shots at you Sound is ferrly effective in Outlews, the horse's hooves tep ewey at different speeds





Three bandles to be shot here before the germs will set you ride on to the Red Indian villege, to face arrows rather than bullets Black Rock is the scene of the final shoot out - no time to stop for a beer



In the desert you must ride to e corel where the Dalton Gang are hidmo out. Pick them off as they eppear at the windows and you will be ellowed into the next stage. This is the Sioux territory.

fierce mounted breves who bomburd you with arrows. Other hazards appear here like engles and fire balls.

The best way to deal with this screen is just to calloo for all you're worth through the Indian camp, over gates, and hedges till you get to the boundary. All you have to do is reach this and you can get into Little Rock

This is definitely the best part of the game, The hotel, sail, saloon, store and other buildings are all beautifully drawn. You need to be really guick on the match its welking, cantenng or

gelipping. The music was awful though, wey below standard. If you manage to shoot up the five outlaws in Little Rock the geme then sterts egein - though thre time there ere ten outlews and they are meaner

I didn't go for Outlaws. It lacks than simply riding around the countryside shooting things up - an arcade adventure element

or a few puzzles - then it would have been more of a challenge. As a simple shoot 'em up it is just not strong enough

Eugene Lucey ***

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OCCIDENT FOR TEXT FILE COMMENDS OCCIDENT FOR TAVE LODGE MARREY PROTECTION S. CTEL 23 For mare halp 8 x SHIFT Presa RETURN to get back to taxt file

#Tasword is pretty unique product. It's 80-column display is well readable and backed up by a well thought out program that really can hold its own in professional use. 77 Commodore User November 1985

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Screen Scene Screen Scene Screen Scene

Mochius Commodore 64/128 Infinite Games Price: £9 95/cass

It's always with some hope that I load a game from an unknown it'll be good arrough to knock one

I am ability to raport that in this ceas my hopes were shattered within minutes of playing the thing. If describes itself as a shoot 'em up sicede advanture which conjures up a cioss betwhich is, I think what it wishes

hirad by rabals to atoo a mind bending also called the Contiplier from dominating the battle your wey through meny planets before you reach the

you controlling a space figure and walking left or right across half a dozen acressas until you taach a tienaportai You're pui-

planet all of whom have fallen touch you, you explode, but if they hit an obstacle thay pop time you find the transporter, you pop off to another planet which besis an uncanny Asemblance to the last one. It's

En route you pick up a retpack the nastes I never got as far as

Two sahot teams fight for con-

trol of earth. The goodies are the Autobota who are trying to stop

Laft: You as Mosbius dealing death to the local population. The bottom of the acreen indicates fuel and mode of transport. The controller's tasih plow if VOIL die Below: The loading screen - batta: than

the rest of the gerna.



the latter made of transport. I'd lost all interest and begun to wonder if maybe the headcleanar tapa it came with might look more interesting if I loaded that Mike Pattenden

Sauue Torghness Stavine Pewer

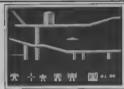
The Transformers Commodore 64/128 Brean Price: £8 95/case

Trust Ocean to produce a game the best selling Cheatman for which can be turned into diffarent shapes by pulling them about Danton Designs, gwan atuck with the tried and tested The squere on the left is the Autobot centre where you

blem is that the Autobots have an anargy crisis caused by high rediation levels. You control the five Autobots in an attempt to assemble the four piaces of an Energon cube scattered around a that's right it's a platform game. but only in the saces that Im-You control the five jobots in-

dividually via the Icon aystem. The action shifts to the platforma where dustbin-like Defense Pods

assemble the cube



Note the Shadowline atyle icons - you just know it has to be

are scattered around. These are home to your robots and can be used to replanish energy and shalds which dwindle repidly

There are three modes of travel. You can walk ponderously simply fly off in search of the cubes. A combination of each is good meena of exploration. by fiddling with the joystick. This takes a bit of getting used to, and after a while I was still turning into a Porache instead of gatting into my dustbin.

Graphics are good and the whole game is well put together Into a computer game. The idea ing a good part of the game a dif ficulty is in coming to grips with the controls. As far as the plat away with it, but only just

> Somber *** Seuul *** Taughuess *** Storing Fower ***

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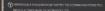
LEAVE THE REST BEHIND







TIREBIRD SOFTWARE - WELLINGTON HOUSE UPPER ST MARTIN'S LANE - LONDON WICHIGH



When I tell you this is one of Ihosa Egyx/Lucas films littles mentioned in Den Gulman's article on page 65 you might alt up and take notice. You'd be right to saw well, this geme comes packed with all the arytish ell plutes of its stellness as

its stellarments you are a space scavering trevelling from galaxy to gains searching for obandonad gas. This time thank you've structure of abandonad gas. This time thank you've structure of abandonad sachholegy to be a space of the stellar of the stellar observations observations of the stellar observations

surface. It's net es easy as that of cause The iffs ore protected by the Guardan saucera, who operate of the surface of the cause of the surface of the surf

The screen displays a view of the frectal kind general



is plenet through yout surface ver's window. Above that so, notes prayled information on child strength, direction of disks pervise traderies and other adult facts. Some of the information in the control solid direction isn't little traceing general papayed for my mand infough, mercularly if you en on using is and as

scape is impressive and excit is to explore The enfirmation mail. The aurileos sever of your rob. Psylete as he examines i locked medules is great. The gemephey is varied and chollering. These is zepping strate; and simulation here, and we have the normanistic founds in five really only soratched the surface selfar but (Think you wi got a good enough idea, se now go out and have!

Graphics ****

Sound **

Taughtoot ***

Staying Pawar ***

out you'll have to deal wish thes Guardian seucer first.



The fractal graphic style landscape is varied and exciti to explore



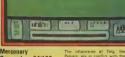
Screen Scene Screen Scene Screen Scene











Mercenary Commodore 64/128 Novagen

Price: £9.95/cass £12.95/disk

After only a few hours playing Mercenary, I am convinced it's est to rivel such sicular classics, vides your only contect with the as Fifty and Summer Games. The costavia world que combination of Right simulation, combat and edventure ec-

Pelvers, ere in conflict with the elen Merchennids and your obective is to searst one aide or the other (or both) in the hope of being able to regal your ship or our leave Toro You ere equipped with a fully mobile life-support system including 'Benson' your ever-feithful computer who pro-

The arana. The Planet Terg hes Escape from Tera features a nor- one main city complete with a variety of roads and buildings tion using stunning three dimen- in or around brildings, and des cend to the subtenensen com-

Typical Mercanary cityscape

help you move ground the surchees enother so that you can aguere, and you position in the graphics and music city is denieved on your console together with speed, compess elittude and elevation information, end beneath these indicatore is a message window for communications. As with any

ercede edventure, your lirst tesk should be to set about constructing a map - oute a daunting The graphics: Vector graphics ere nothing new, but it's unusual The Plot: York speceship has play of rooms and passages Ob- to see Images of this quality cresh-linded on the planet Terg. jects can be exercised from all working to the speed on the 64,

engles and moved from piece to and believe me, the action is fast pisce et will, and vehicles can be and furious. No music have purchased stolen or borrowed to though, end cound re restricted to bleeps barros end wooshes face of Targ more easily. The city Bit of a shame that, but I supof Tero is errenged in a rough, goes there was no room for

> Mercenery looke the steving et the front of my collection for some time to come, and I'm looking forwerd to eserno other gemes from Novegen under the Mercenery umbrelle in the

> > Fred Reid

Graphics	*****
Second	*
Tecohome	*****
Stavine Privat	
	++++

Below left Energy Crystels come in useful. Below Middle: Catering Provisions identified, Below Right: The briefing room -- for mission







Deus Ex Machina Commodore 64 Flectric Dreams Price: £9.95/cass

Automate, the software house which originally produced this title, seem to have had no luck the Spectrum over a year and it

A cest of eters including Jen Partwee Ien Dury and Frankie Howeld were paid to provide the Croucher's strange musical creation. All of which led to a great deal of publicity and media in

feeding Automala to make bitter distributors for refusing to take the product An attempt to to take olf So it is strange, to say the least, that Electric Diesms now think they can makii a ge et it

The program is an much e curious piece of philosophy as anything else. It puts you in the tole of a being developing from



Daus Ex Machina -"the cameolar just isn't all that interesting

conception (yes, literally one section yeu have to quide a sperm cell toward an egg while and preserve yourself as much tage life score (Heavy Ed)

The audio casaette leste about 30 minutes each side, and while it is ploying, the program progresses through shout 13 dif

fromt sections, each a sort of mini-name in its own right. For exemple, while listening to Donna Berley crooning 'I am Machine, I have elways been'.

(so deep, so meaningful), you have to nourish the eggs which ere supposedly incubating in the heart of the machine by moving a curses around the screen keeping them somming. In another seccommended by a voice on the

teps - so long as you've avestart of the picquam, this should coincide with the expensionce of

This brings us to the mein flew with this package - the restrictions are placed by the time with the tape recerdless of

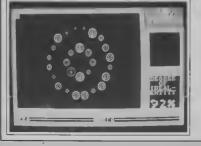
Heving said that the peckage a. without question very mue in parts of the programm ing including some excellent graphice (although only in

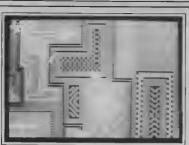
The acundirack too, although ridiculously pretentione as far as the philosophy is concerned, is interesting and enjoyable in its were creeted by Mel Croucher using verious synthesizers, quiters and percussion. The teste, but they'se certeinly at mespheric and at times almost

But we're still left with the fatal flaw Most people having pleyed through this e couple tenes even t I think going to

return to it it's an interesting ex-Chris Anderson Sumber ++++ Toughness *** Value ***

an interesting experience, but only existing off".





"Graphically the game is a little space"

Space Pilot 2 Commodore 64 Anirog

Price: £7.95/cass £9 95 dick

Thrs gamo's 1984 predecessor, Space Prior, was a conversion to the 64 of Time Prior, a com-op game which enjoyed a popular spall a couple of years ago. The idee was simply to servere as long as possible guiding a small piera atonnd a multi scroling screen blasting enemy craft. which began as biplonos and graduated through the time

zones to futuristic combat rate Space Pilot 2, logically enough, is based on the more recent version of the sicude game It is actually not much different switched from a cloud-filled sky to a series of eight strange landscapes. Keep flying in any one direction long enough and they will round But as the Inlay distrected by their 'awasoma, futuretic beauty' amon thay have no bearing on the action

You have a view looking down on the action as your space craft moves over the ecenery You cannot after its altitude or sound only the direction it travels in Using key control there's simply one key to optate left, one to rotate right and one to fire (Use of sovetick takes longer to adjust to Moving the stick will cause the craft to rotate allowly until it re facing the appropriate direc

Alien star-fighters of different variation access from the address of the screen to attack you, both singly and in formation. You have the choice of blasting or avoiding, the aim simply being to survive each wave for two minutes. Each successive wave

Scalextric Commodore 64 Leisure Genius Price: £9.99/cass

Just about everyone must, at some time or other, have cleved Scalaxtric. I remember piecing together the track for hours and sotting the acene before sending my Latus hurtling round the track and through a pile of soldrers I'd ont in the way.

This licensed version allows you to do averything you did with the real thing bai running down the soldiers and tarnfying the dog But what it comes down to in the and is a racing game.

You have the option to build your own track piece by piece like the toy laxcost none of the bits as warped or missing) or you can go straight for a readymade Grand Pnx circnit Select the number of laps and the quality of your opposition and you're away. Just one point abont making yoni own track don't get too cerned away when you make it otherwise you'll never get the thing to meet at the



Pitatop atyle split screen and position on circuit

idea to make your own con-With all this completed the game bacomes a simple head-to

stort again it's certainly a rice head challenge with the computer or a friend. The acrean is split like Pitstop II to give two opcrunch is it as good? The

answar is no. The controls are Impincise, and the feeling you get racing around is not as good as orthor Pristop or Pole Position. Playing the computer I found that brings a new set of ellans

naturally mars deadly While wave one is a doddle. eve two sees the introduction of heat-assisso massiss which fly faster than you do and track you until either you or they are destroyed in later waves these start to move at almost modesi-

ble apeads Graphically the game is a little sparsa, apart from the inelevent backgrounds. The splites used for the verious creft are run-ofthe mill Sound too has nothmo notable - some attends music clearly created by a programmer rather then a musicum, and the vausi whmea, biasta and

One poor feature is the excassively long pausa at the start of such wave and such life You're likely to do gurts a lot of dymo to begin with, and the waiting around is annoying to

It's hard to see this title winning a following outside die-hard addicts of the arcade game. Although competently done their isn't anough variety to make it more than just an availage shoot-em-up. I found it frustrating rather than addrctive Chris Andarson

it was capable of screeming

around the circuit, pounng the

speed on at the bends, whilst my

car's tyras protested and the

valuele dufted all over the shop

into the keib. I also discovared

that if) let him by and overtake.

lan me and pulled over at the last

is in the overtaking an you're bet-

Slot your own track together.

COL

The fun of these kind of games

second ha'd cresh every time



The solit screen indicates relative positions on the grid. The bottom screen indicates your opponent has his back to the goal

++++

Miles Battandan

+++

22+

++

++

tar off pisyong a friend, but as far

so the quality of the amulation

and the gameplay goes I'd stick

with a copy of one of the above

names and the kit resulf

Commodore 64/12B Activision Price: £9.99icass

Rallhlazer

It is the year 3097 and the Football Langua has once to the logical conclusion of its piesent day actions and abolished soccet altogethar, instead you spend vous Saturday afternoons on the tarinces of an interatellar esteroid wetching a couple of grid after a ball. The national gama is now Bellblezar.

The screen is spilt into two halves à la Pitstop II You are streoped into a rotofor - a sort of set powered bathchen - and before you is an anormous graan gnd stratching into the distance Out there some where myour oppotent - the orld curves, an ha maybe bahind the houzon A kiexon sounds and the ball is shot somewhere onto the ord All you have to do is locate it and put it away between the coal beams that marauds around tha pitch boundaries. This all takes place et the speed of light (or so

It's particularly important to work with one eve on arther scraan because you need to know where your opponent is. and more importantly where he is headed if he has possession. It can also work to your benefit it

you can place yourself in front of him. Much of the work is actually dona for you, your rotofol locks into the ball constantly, and when you are close enough its 'nullfield' holds the hall for you Than it's just a question of recmo downfield for goal and avoiding your apparent who will try and dispossess you by feing the bell from your energyfield. A buzzing noise alerts you that you are m a

position to fight for the ball

The idea is very simple, but I'm not sure if that lands it any beauty. It gave me little satisfaction to best a drord (on lower levels naturally) and sven less from scoung The must really be the acid test - if it's no fun to score what's the point Playing a human appointnt improved this slightly, but I couldn't hain faaling inhibited by the constraints of the game, which is otherwise Something was missing, some

Mike Pattender Greenics **** Saund +++

MESET VAK # # 1 1 1 # 1	
E I ROAD CURVE	
nice C	
	Ш

Screen Scene Screen Scene Screen Scene



Enigma Force Beyond Software Microgower Price: £9 95/page

I'll come out with it straight away EngmaForce is superb. The programmers at Decton ingly original Shadowline for

just a follow up to Shadowfire It

of issuing commands by aelacbols (icons) has been retained. ing to move back and forward between valious menus, all the angle manu in the bottom half of the screen (Because their ere so meny options, the menu is too to the edge of the screen and the menu eciolis Beautiful I



The big difference with this game, is that as you lettue commande you actually one than he ing corned out on screen by enimeted figures. The too half of the screen is assigned to this display of whet's going on.

select the picture which means 'pick up an object', followed by a symbol of one of the objects in the current location, the cheracter under your control will move to the object and pick it up

the character will move right through a sliding door and appear The same of actories to

szlect from is razsonably lerge pick up and dion objects load ammunition and 'activate' objects (the effect here depends on energy, while activeting ex-

Enigmetorce - "A quick description would be Shadowfire

you must discover by theil end ardirect joystick control of a you so wish, although this is inother words eating a gives you advisable until you've located

explode in 30 seconds. All this ebility to run up e seguence of each one to be executed from switch to control of another, for leader of our other beings.

The scenario incidentally is that General Zoff who you cap-Shedowfire, has eecupad during a war is raging between insec-

The enimation itself is not the

Left. Two members of the Enigmeteam explore the



(a) three members of the team await instructions; (b) Strength icon; (c) Bar chart strength indicator; (d) Icon selector: (a) Icon window scroks left and right.

Below: Status report on Enigmateam



ing on. At least the action is fast, Oh, and thers's enother great

Be warned that the game takes some getting used to fcons, contrary to theory, are actually much harder to get used to then written commands. But because this is an advantura, working out what each command does is all the hang of it, it's almost impossible to stop playing Chris Anderso





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Preview Preview Preview Preview



IRIDIIM

Jackson is the tirst of fit naughte are twenty screens long. Your Mente Cless Spans to een bonus

Paradraid fans will be queuing up at their local games shops at the end of Feb to get their hands on Uridium the sequel to Hewson's hit game. Andrew Hewson papped into the Commodore User offices before Christmas to bring us this sneak colour screen-shot.

It's set in deep space. Fifteen huge enemy fortresses (Dreadnaughts to give them their proper names) flagt aminously towards your home planet. The first of these, Uridium, is in your sector and you are ordered to intercept and destray it. No easy task this tian Fighters, and avoid the mines before you get to straffe the ship itself.
The ship is truly huge — to give you
an idea of its size in camparisan with

your ship, the screen-shot above shows just one 20th of the length of Uridium. In other words you must scroll through

Once you've penetrated the For tress's defences you have to plant mines to finish it aff completely. We haven't yet seen the explosion when Uridium goes up but Andrew Hewson was "breath-taking

It is actually a nuclear explosion. You have to set mines and then make good your escape before the mego-band is

triggered.

But dan't think that's the end of it. Uridium is anly the first of fifteen Space each named after a

metal, and each are taugher than the

Yau pilat a Monto Closs Spoce Fighter. A small, fast, nifty little fighter armed with particularly powerful igystick - this will make it accelerate. When the joystick is centred the Manta will slow down, cruise, and then turn and cruise slowly in the appasite direc-

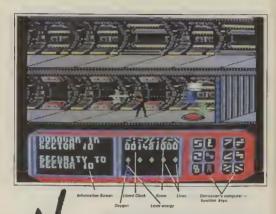
Amma is unlimited so once you get a Pratection Fighter or the Dreadnought

The graphics invite abvious com-parisans with Paradraid. Programmer Andrew Braybrook has used the same shading and metallic effects to create a subtle suggestion of depth. This has shadows on Uridium created by your ship as it turns, dips and accelerates.

manages to destroy all lifteen Space Fartresses. If and when that point is reached, say, perhaps by a member of the G Force, then you get three as four of the taughter crafts caming at you again. This means that you can continue to up your high scare. Getting tian Fighters in an ever sharter period of time earning even higher banuses.

The game is due out at the end of February but there's a full review in next month's Commodore User

Preview Preview Preview Preview T



The Lizards captured the Imagination of a huge audience when "Y" was first shown an your TV screens— aver three cansecutive nights— during the Olympic games.

The tole of Lizard like oliens, disguis-

Into tole of Lizord-like oliens, disquised as humans with near-perfect rubber masks, secretly syphoning off Earth's water whilst pretending to be our

friends proved compulsive viewing. The 'one off' production provided successful that 'V' was turned into a series. Great news for hard core 'V' forse like me. Mare good news was to follow — DC Comics announced a 'V' series and Coean software a 'V' game for the 64. So what happens in the game?

You play the port of Resistance

Below: Dannovan uses the teleporter to disappear . . . and reappear at a new location





Preview Preview Preview Preview Preview

leader Mike Donnovan, whose mussion is to destroy the Visitor's Mother Ship. The shep has five moior locations: the Central Camputer, Nuclear Reactor, Air Purification Plant. Communications Centre, and Water Inlet

Game designers Grant Harrison and Tony Knight hove added their own original touch to the 'V' stary. In the gome, Mike Donnovon can telepart fram lacation to location by standing an certain metal plates on the Mother ship. The five mojor locations mentioned abave ore divided into a total playing area of 128 screens - 16 wide by 8

Donnovan corries with him a mini computer which he uses to hock into Visitors' Communications com-

puter. The messages are transmitted in puter. The messages are transmitted in the Lizards' own language. So Mike Donnavon has to translate them to make use of the information. The game begins in an Airlock near

the Docking Boy. The screen is dryded into two main sections. The top two thirds is the interior of the Mathership, and the bottom half the various infarmotion — including Donnovan's com-

puter with its six main function keys., The best way of blasting the Mother ship is to lay explosives in the Central Computer. This disrupts the functioning of all systems including the nuclear reactor - which in turn leads to one

very big bang It's not yet certain whether Lydia and Diana, the orch V villainesses, will star

in the game but with or without them you're in for a taugh challenge.

The corridors of the Mathership are patrolled by Security Droids as well as Lizard guards. But don't warry Dannavan is armed with a powerful loser ta fight them off

Tony Knight expects comparisons to be made between V and Impossible Mission. "Donngvan's running motion is similar to that game" he told CU

It will be available on cassette at

£9.95. 'V' is expected in the shops by early Jonuary - so you should be able to buy it by the time you read this. But you can also get one completely free by entering our fun 'V' Quiz. We have no less than 30 capies to give



Test your knowledge at 'V' and win one of 30 free copies of the game that we have to give away As an extra special first prize we have a selection of the excellent DC "V" comics for the first correct entry to reach our office

- Name the two female Lizards above?
- 2 Who was the Ster Child?
- 3 What was the name of the Visitor Genaral who turned pacifist and helped the resistence?
- 4 Whet was the resistance fighters' redio network called

 The Visitors were finally defeated by fat a polluted water supply, (b) e massive explosion, or ic) deadly red dust?

Send your answers on a separate sheet of paper to

V Competition, Commodora User, 30-32 Famingdon Lane, London EC1R 3AU. Entries should reach us not later than February 15th.



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Cauldron - witches, spells and broomsticks

Now Games 2 Commodore 64 Virgin Software Price: £8.95/cass

Compileton tapes can be extemely liustrating allaces II you shady own hell the games on them you're bound to leel toin about buying them a second time or the sake of the rest of the titles on these But there's no doubt they represent good value for someone who's just bought a 64 and wants to build up a soft were library the legal way

Now Games 2 offers live emis originally refersed in the

spino of 1985. Three ere winneis, two also-rans

First of in Eine Systems' Amwalf one of the winners Barad on the TV series, it's a cross bet ween last-moving shoot-im up and brein-twisting arcadeadventura. You have control own the Anwoll helicopter and have to pick your way through a hazerdous underground lebyrin the in search of live scientists who need rescump

The game requires on extreme ly deft touch on the joystick as the helicoptes a movement is extremely responsive and many of the cans you have to managemen through ere pretty tiny. The puzzle element consists largely in working out what order to do

cartem tasks - Joi axample. shooting out a switch can onen a new section of the game. Rewritted these me planty of sur-PHIDDS

The same cen't be said of A&F's Chucke Egg 2 The original Chuckye Egg was an ad dictive, if simple, platform geme The Iollow up is an arcade adventure but of very primitive standard - Spaptrumeague graphics and unoriginal puzzle

Fortunitally there are two tar better meade adventures on the tape: Cruidron From Palece Solt wase and 7s Na Nog Irom Gergovie Both have very classy graphics - Cauldron has a beautifully deterled acrolling beckground, while Ter Na Nog litetures the suppribly asympted Celtic character Cuchulerno

OI the two Tr Na Nog has a much stronger puzzle alement, but the action in Cauldron is much fester and more exciting The latter come sters a witch Whose time is disided between flume around the earth on her broomstick, and Iraping Irom platform to platform in one of Tour underground caverns

The other loothall games on the tape men't really worth tells ing about but never mind, the thee good titles make this com-Disting a brugary los intercomers The ratings below relat to them. Chris Anderson

Greetics *** Stend +++ Togghiess ***

Steving Pawer **** 22222

Tir No Nog - Celtic myths make great adventures



Doctor Who And the Mines of Terror Commodore 64/128 Micropower Price: £14.95/cass

A lot of money has been spent on the marketing of this game it comes in a huge box, about four times the size required to hold it's contents those being e cassette loading instructions for I our different computers in ax different languages, game instructions more game instructions, a map, and a proce of coldured card in a plastic holder

Atter that lot, the game itself turns out to be something of a disappointment it is harveally a straightforward platform gema with you cast in the role of The Doctor The Mines of Terror pro that the Reens, under control of he Master, are digging for the

Now you know why it's so dear

rose mineral Heatonite. The Master wants the Heatonite so that he can build a TIRU (Time In stent Reply Uniti incorporating The Doctor's bress and take gyru the universe Incever

You, as The Doctor, must thwart The Master's plans by stealing them. This involves wendering around The Mines collecting things like picks, ea mesks dynamite, etc, end evoiding death by numerous

unpleasant methods To aid you on your mission you have Splinx, who looks like a cat. but isn't Splinx can be programmed to do things like ligillow you. or go to certain tricky locations and retrieve objects. This would have been very useful indeed. but my Splinx steadlessly refus

ed to cally out my instructions Doctor Who still leaves a lot to be desired. The graphics are moetly dull and uninteresting for one thing And when you get killco, the game just fraczes for an interminable fifteen seconds or so while you are informed what

Carrend your demons

Doctor Who is observely in tended to be a more of a breinstrain challenge than excede ac tion, but I don't see that as an excusa for poor presentation You d have thought with all the milespe Dr Who has had show many people ows at least one childhood nightmess to the pro-

gramme?) it wouldn't be too herd to produce a good game, but cle and unapuration was lacking

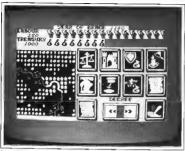
Staying Pawer

Ken McMahon Brusher +++ Stunt ** Toughness *** ++++ Value

Or Who in those terrible mines



Screen Scene Screen Scene Screen Scene



some of the loans and their use is slightly over the top

The Full Crown Commodore 64/128 Mind Games Price: £9.99/cass

"Icon-duven". ' animated' "simulation game" Uh huh Sound familiar? It sounds as though the progammers (or at lasat the marketing people) have just discovered icons and the animation possibilities of the C64 Anyway, to business

The Evil Crown ', it says hera "Feudal England, 1200 AD." The gemaia a simulation of what it was like to be a Baion back in the good old bad old days. Starve the peasants, win a few tourna ments, overthrow the King, The screen shows a small man of your barony with villages displayed quite neatly ilittle house shepad scons come back to them in a moutel Most of the eciain however, is taken up by boxes, each representing some part of the economy of running a baseny. taxes, tolls, protection money to the King and other necessary

The playar atarts off with 250 peasants and 500 pieces of cold. The object of the game is, by careful expenditure of that money and placement of the peasants to increase your holdings to the point where you are strong enough to challenge

the King. A joystick moves an ai-10W 9ntp one of the expanditure boxes, a skding ocale allows you to adjust how much you spend Onca all of that is out of the way.

you can move on to the main part Except that this is the main part of the game. What comes next is an "animited tourna ment , where you try to knock

can (usually one or less), and the Evil Crown - "Sterve the passame, win a faw tournaments, overtinow the King

try to invade your tentory or your peasants revolt against you and you have to dafand your ter ntory. This too is "animated" pertonal consecuntations of the two googang rides meet in the

carrie of the screen, struggle a kttle, and then one raticate Ev coine etuff he sad, turnos down the sound on the montor. The only way the player can inoff as many opponents as you fluence the rourse of the battle is by deciding how much to pay his Battle stage, where other Barone mitts or how many mercenaries

he can afford to hap

Assuming these stores are nessed successfully, the Baron then seane his Hervest - an increase or decrease in peasants and money. Passants due to starvation, attack by wild animals and was Bosing this. thay increase by, well . . Now if they could an mate that

Eventually, if the Baion ia successful, he will be allowed to challenge the King Failure means death, of course, And thon Play again?

In terms of graphics, the display is clear informative and uncludtored But some of the icona and their use is slightly over the ton Equipetance those little houses we mentioned earlier They represent villagas. and you gain or loss a certain number at the star of each turn But since the gains or lesses cen reach 50 or more, you would think there was an equal way of placing tham on the man than picking up each one with the air row, placing it on the map, going back for the next one, picking it up with the arrow, placing it on the map, going back for the next one, picking it up with . well you get the idea We never knew that a single

bear could account for upwards of a thed of the population of a villade in a single year, but you've got to learn something

from a game! Simon Ferrell & Jon Sutherland

Greatics **** Sound ++ Terahness ** Staying Posses ** Value ****

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Preview Preview Preview Preview Preview

PSS boss, Gory Moyes, Is uncharacteristically coal about the lounch date of the long awaited Swards and Society.

You would expect him to be getting tichy fingers by now — given that the game has been under development fur the lost architean months.

Most other saftware businessmen wauld turn all shades of green if they were reminded that all of that expensive programming development time had not yet been turned into hard cash.

When's it gamp to be ready, Gary, I ask hopefully? A nancholont shrup at the shoulders, a laak af complete indifference to a question that does not seem impartant and the reply "March, probobly, . . . it's caming olong".

PSS have a reputation for taking their time with development, but in the case of Swords and Sorcery there is a very good reason. Simply, this is their biggest launch to date. Having now established themselves as the LIK's.



Swords and Sorcery

leading war gomes manufacturers, with games like Battle of Britan and Theatre Europe, Swords is their bid for the larger, mare lucrative, arcade adventure market.

The plot is spelt aut in rhyme as

followsWHEN DARK CABALLUS HIS

COUNCILS LENDS US LET NOT THE RED CLUPEA HARANGUE US

TURN US FROM WHAT SEEMS TREMENDOUS AND

The Edge are planning a world wide lounch for the 64 version of Folrlight — a smosh hit on the Spectrum earlier in the year.

THUS TO ZOBS GREAT TREASURE SEND US. The screen is reminiscent of the ald Beyond game — Psytron, with a 3D ac-

fion ponel, a flat maze panel, and a harzontol panel at the bottom for the text and other information. The screen shot above was taken

from the Spectrum version of the game which has been on sale now for several weeks.

PSS are colling this technique the MIDAS system — but don't ask me why.

code adventure blurb, but believe me, Forflight really is samething special. You play the part of the clacked adventurer, explaring the hundred plus rooms, at the 3D-style castle.

Fairlight

A deal with a top American software label is under negotiation and an Amiga version of the game is planned for millionaire gomers. The Edge's previous game this year — Wizardry — out Ultimated Ultimate's Pendrogon series with better graphica, and a tougher challenge

Fairlight pramies to be even better. Plot-wise it does not sound exceptional. A wizard is locked up in a castle and you have to find an ancient back to tree him befare something awful happpens. Now just stop right there. Dan't you dare from that page. Yes, I know you've heard it oil befare, all that or. Graphics are incredibly detailed even if they are of the two calour vorie-

ty.

Yaur short sword is used to fight off
the arcs and other nasties that assoil
you an your quest.

But there is much more to Fairlight than exploring rooms and killing nasty creatures.

The beautifully drawn abjects in various raams ore intended for use. Boxes have to be ploced on tap af each other ta enable you to reach items that ore required, and chests can be apened and searched.

You can carry up to five items with

The game ollows you to develop your awn character. You can chaose to specialise in mogic, sward play, or whateverelse takes your fancy.

Swords and Sorcery is designed never to become absolete — with a number of exponsion modules plann-

Swards and Sorcery certainly looks like it is gaing to be a mammath challenge of adventure, strotegy, and fighting. Far a full G Farce review when the game is completely finished keep watching this space.



you of any time but this takes energy as you must keep this replanshed. So for we have only played the Spectrum vercini of Fairight — from which the above screen dump was taken. But rest statured as soon at the 64 version is ready (easily by the time you get to read this) we will be playing it to death to bring you an in-depth review of this classis came.





Formula 1 Simulator Commodore 16 Mastertronic

Price: £1.99/cass Hand on the tail of Death Race 16 which we reviewed last month

comes Formale 1 Simulator by Magterfronic There's a basic difference of epotoach in Mastertionic's effort Insteed of buildings whizzing past your eyebells at 200 mph, formule one keeps the scenery on the honzon. The track is marked ont by little white stakes append a prosey proces backgrop. The bottom half of the screen shows your instrument panel if you could it that In the centre is the steaning wheel, this turns when you tweek the joystick or press the appropriate key, both options are included Remaining time is shown on a countdown dock at is the time taken to complete the correct lap The bottom nght-hend side of the screen shows you speed. gent, nembar of cers passed and of comer your score If I were to criticise something

it would the lack of challenge an the course it doesn't exactly push yon to the limits of you driving skills. The long straights which allow you to reach apends

of 300-400 mph are terminated by arther left or night-hand 45 degree hends. After a short while this becomes a bit predictable end therefore monotonons

The other cars provide a tricky diversion. They don't go in credibly fast so the tendency is to sees up behind them at brenkneck spend. The only way to avoid a collision in these our Comptances is to slam into low gear (there ere only two). They can be passed quite easily, but it means losing a lot of time, especially if there are two or there in one spot. You me award ed bonns time on completion of each lep To begin with, it takes longer to finish a lan than the time bonus you get for it. If this happens you will run out of time eftar two or three lane and norsts will be edded to your score for any cars you passed. With a bit of practice it's possible to keep

Although Formula One is an easy game to master it has a continuity about it, you don't cresh every five seconds. This makes it good tun, but it could have limited appeal

going for a lot longer





Steve Davis Snooker Commodore 16 **CDS** Software Price f7 95/eace

Steve Davis Snooker was originally released on the Commodore 64 about six months ego. It was, and probably still is the best snooker geme for the 84 Sadly, the only similarity bet. wean that and this C18 version is the picture of Steve on the in-

The first megadissappointment is that you can't play the computer. As pleving vousalf at snooker must rate as one of the most boring pastimes in the history of the world you'll have to find an opponent

As enyone who has watched ooker on a black and white T.V will tell you it's not always sesy to follow whet's going on Because of the C16 a colour limitations the same problem exises. The brown and pink are easily confused with the reda end I kept losing the curbell altogether. CRL have, et least, recognisad the problem and have cacorded two varsions on the

tape, one with a green table and the other black I found the green clearar but it may depend on von T V

Apait from that you have a pietty ferthful rendition of the geme Eech player tekes it in turn to one up with the Chisps, Spin can be out on the ball, but unlike the 64 varsion you can't decide on how much, yon've either got it or you sin t Finelly, yon have to decide whether to smack it one or go for a pentle not nunn the powar meter at the bottom of the screen. The scoring is up dated eutomatically and foul strokes are penalised according to the rules

If you're a dedicated afficionedo then Steve Davis will no doubt appeal to you But I think that CRL have been too ambitions that time In the Isoportion to the smaller machine all the best bits of the game heye had to

Ken McMahon

Graphics	**
Snuni	**
Teughness	****
Steying Prayer	
Velue	****

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Blade Runner Commodore 64/128 Price: f8 95/eace

New listen cerelully because this is a bit complicated. Binds Bucner is "A Video Game Interpretetion of the Film Score by Vangelis", anye the box blush

How do you make a grown around e piece of music, I heer you eak. That must have been a question that CRL pondered, es well, Ice at least live seconds Their solution is simple - YOU DOMET - you make a game

about Blade Runner the Irim In case you haven't seen it, it's set in the 21st Century An ad vanced based of jobors, the Replictroids, one used as slave lebour in the colonisation of other planets Not surprisingly these near-human droids get cheesed off with being slaves So they set up the Robot Liberation Front and mutiny on and old

World colony The result: they are made allegal on Earth with orders from the government that they must be tracked down and destroyed This is white you come into the action, as the Blade Runner, a space age bounty hunter who earne his keep by hunting out and usting Replicids

The game has two screens The lirst shows two meps of the city, a large close up of one of the city's nine sectors, end a smeller complete map A and shows the position of the closeup in relation to the other might

sectors This science is used to track the Replidends, Press the line button end your craft takes off -

though this is dill icult to see as it IS NO more than a tiny dot in size The arm is to land a Rankshould shown blinking on the city

mess and lend on top of it. The SCION NOW changes to a street You ship descends slowly to

the payement and out hops the Blade Burney A bit disappointing has to be the fast impression as you expect something like Haruses Ford - the ongenal Blede

Anyway, once the ection starts you soon lorget about the madequeeses of the graphics The chase is on as you treck the Renidroid Dallender-style on the scanner Once you get him in Your sights you let Ily with your Issus More disappointment here I'm elieud - YOU CIN'T YES anything and there is no sound of





Closs up of city streets. Main city map, with shaded sector showing the eyes of the close up

oun ahot arther Sure, the pedestures fell to the gound as avidence of the laser cargo - but e leser gun without graphics or sound, come on CRL we expect bottes then thet.

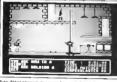
It's a pity about the laser because the street chase part of Blade Runnes is purte good I un Not stunning, but I did went to get those Replicitoids once I'd tion into it

The music is excellent - at feast CRL have done sustice to Vangelia's sound track even il the ceme itself is discopointing

when you consider the yest potential of a Irim like Blede Blade Runner is enother of

those games, like Forley 13th thet wouldn't be much oop at nill without the title. It would be OK at £1.99 but not enough depth or lesting value for £8.95 Eugene Legev

Breaking # 4 Sound *** Toughouss ** Staying Power *



Russ Abbot attempts to escape from a rival comedy act

Basildon Bond Commodore 64/128 Probe Software Price: £12.95/disk £9.95/cass

This game forces me to come streight to the point The similarities between Basildon Band and Impossible Mission cannot be ignored for a moment

when you come to play this It is a clone trading on the success of the oncural. That said it's made a ressonable attempt at aping its

The idea behind the game is to 18 soun Russ Abbot Irom the clut ches of a rival comedy act. This may, bearing in mind the quality of Russ's 'Atmosphere' single be e major stumbling point, but I overcame my projudices and

made on attempt to rescue him. The action is contred on a TV studios where Russ is secreted in

me denk diessing igom. As Bond you have to search the place, collect jokes and answers and find the secret room. The similarities may not sound overbearing but as soon as you see the style of the game you'll acc my point. Cameres natiol back and Lorth like the droids in the Epvx griginal and the rokes and answers ere hidden in vaneus Items of furniture and equipment that are littered around. Even the agent's acho ing Locastons are there

Missing though from this is the left that took you up and down the professor's complex. Another game takes over for inspustion here. That old classic on the Amstrad (the 64 version wes nall) Sorcery Bond opes from seem to seem carrying vangus uselul stems complete with the creaking of doors.

All this is not es all putting as it probably sounds. I can't think of many better games to take in spection from The problem really lies in the lack of atmosphere the he) that the version has in companies to its idels. Added to this Probe have substituted come of the gamepley for pure niggly

toughness. To get going in the game you have to lind a diskette to boot the computer up with Not easy I can tell you. Then whenever you find a joke or answer a lege like a balloon Hosta down and nicks it off you. Semetimes there's nowhere to hide from it. Furthermore you have to lind the right object to search en item of furniture with. but each time you start a new game the items and the objects they apply to change II you think of the possibilities involved with lorty icoms and aven more objects, then you'll stert to realize this is no pionic

When all this is said and done I think you might went to give it is go anyway. It's certainly a challenge You won't get the class and style of the Fovy original, but you will get a well executed game of the name type I'd rather heve that than a load of drival

Mike Pettenden

Graphers ++++ Sound ** Taughness *** Stavens Pawer +++ Value ***

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Old programs for new

After you have deleted a Basic program either by pressing a reset button or by typing NEW, the program is not actually removed from the machine's memory, It is just made Inaccessible to the Basic interpreter

Now it can often happen that you will want to make the program accessible again, especially if you pressed reset. The next program does lust that - it reverses the effect at NEW, Not surprisingly, this facility is called OLD on some other machines.

The program creates a single Basic line with an OLD program embedded in a REM statement. Provided this line appears at the start of all your programs, you can recover them If you wish by typing \$Y\$ 2055. Line 4 In the program below must be a REM, one quote, 31 spaces, and a closing quote. This line must not contain any extra spaces anywhere

What you do is to enter the whole listing

and run it. If you have made no errors then the program will copy the OLD code over the REM statement spaces and then delete all the program except line 1. This can then be saved for use later; you can add it to any program by LISTing It, loading the other program putting the cursor on the LISTed line 1, then pressing the return key To work, this one line must always be Included as the first line in a program.

- REM"Thirty one spaces here SEE TEXT" 10 FOR C = 2055 TO 2085 : READ A
- 20 POKE C.A : NEXT A 30 POKE 2088,0 : POKE 2089,0
- 40 DATA 169,8,160,1,145,43
- 50 DATA 32,51,165,24,138,105 60 DATA 2.133.45.133.47.133 70 DATA 49,165,35,109.157,161
- 80 DATA 133,46,133,48,133,50,96
- The OLO program fisting.



Freeze a listina

It always annoys me that there is no taclity on the 64 to temporarily freeze the program scroll while it is being LISTed to the screen This means that you have to try to see what is going on while the listing glides gracefully upwards before your very eyes

Well, not any more. The 64 has a small unused block of memory between locations 679 and 767 just right for small machinecode routines. There is also a vector at address 774 which is used when Basic LISTs a program, and a tiag at address 653 to detect when the SHIFT, CTRL or the Commodore keys are pressed.

By combining all these wanderful pieces at information, it didn't take long to produce a

routine to perform the required function To add the LIST freeze tacility to your 64, you just load and run this small listing and the

tacifity will be installed automatically 10 FOR C = 679 TO 686 : READ A 20 POKE C,A : NEXT C

30 POKE 687, PEEK (774) : POKE 774, 167 40 POKE 688.PEEK 7751 : POKE 775,2 50 DATA 72,173,141.2 60 DATA 208,251,104,76

Freeze a listing program

How often have you written a sound program and wished that there was some way to reduce the quantity of data that has to be typed into the 64 to produce reasonable tunes?

Well, now there is a way! The 64 has a musical range of eight octaves, and normally each note needs to be specified as two numbers: two data values in a DATA statement However, eight octaves is only 96 notes altogether and it some way could be tound of numbering these notes from 1 to 96, then each note could be specified as one number, which would halve the amount of data required for a tune Clever, eh?

The tollowing program contains equations In lines 70 and 80 that can convert a number in the range 1 to 96 into the two numbers that are needed to produce the right note from the table following that. The program also contains a small amount of DATA just to give you an example of its use

10 S=54272: POKE S+24.15

POKE S + 5,0 : POKE S + 5,240

C1 = 16.3516 : C2 = 0.06097 40 READ Z : POKE S+4,32

50 IF Z = -2 THEN RESTORE : GOTO 10

60 READ D: IF Z = ~ 1 THEN 110 70 N=INT(C1*2 | (Z-1)/12)/C2+0.5) 80 NH = INT(N/256) : NL = N - NH*256

90 POKE S,NL: POKE S+1,NH 100 POKE S+4.33

110 FOR T = 1 TO D : NEXT T : GOTO 40 200 DATA 56,80,58,60,59,60

210 DATA 61,60.63,160,61,60 220 DATA 59,60,58,160,59,60 230 DATA 61,60,59,60,58,60 240 DATA 56, 160, -- 1, 1000, -- 2

DCTAVE	c	Ĉ# Db	Þ	D //	E	p	G b	g	G# Ab	A	A f	8
1	17	2	13	4	6	6	7	0	s	10	11	12
2	13	14	15	16	17	18	18	20	21	22		24
3	25	26	27	23	25	30		32	33	34	35	34
*	37	36	31	40		42	43	44	45	48	47	48
	48	150	51	62	83	54	56	54	5.7	68	58	60
	81	62	163	64	85	0.0	67	88	95	20	71	72
	123	(29)	125	20	22	76	78	80	61	62	63	84
	14.5	86	67	64	2.5	20	61	82	53	94	26	94

The new DATA values for each note

No need to switch off

Every 64 user eventually experiences a program crash. What this usually means is that you have made some simple typing error while entering your program and that a POKE has occurred placing a duff value into a sensitive spot. Very often this error can be so nasty that all your efforts to reagin control of the beast fall, and you have to switch off. thus losing your program altogether.

Having to switch off doesn't give you any chance at all to recover your program, but there is another way to regain control that does alve you a chance - fit a reset switch

For those of you with little or no hardware experience, this can sound quite complex.

but it is really very simple

On the back of the 64 (or disk drive, if fitted) there is a six-pin DIN socket that is used to connect serial input/output devices flike a printer or disk drive). Looking at the 64 from the back, the socket looks like this:



with the pins numbered as shown on the diagram from 1 to 6. Two of the pins on this socket carry signals that can be used to reset the 64 to its power-up state without turning off the power, thus retaining your valuable program in memory. The two pins concerned are pins 2 and 6 and all you have to do to reset the 64 is to connect these two pins together for a moment only, using something like a front door bell push switch as tollows:



Major Restoration

The next listing is another utility which has many uses. On the 64, the RESTORE keyword resets the DATA pointer back to the first DATA statement in a program. It would be much more useful it the RESTORE statement had allowed a line number to be specified so that you could choose which DATA statement to RESTORE to.

Sadly. It doesn't but the tollowing listing does the next best thing it provides you with a SYS call that will allow you to perform a RESTORE function and specify a line number to RESTORE to

To use this facility, you must add the following lines to the front of your program so

that they are executed when you RUN it After these lines have been executed, you

can then use lines of the form: SYS 49152,LINEND

where LINEND can be any line number to RESTORE to. In fact, LINEND need not be just a number, it can be any numeric expression

like L*6 or A+Betc

Even though the program as given uses lines 10 to 90. It can safely be re-numbered to sit anywhere in your main program. Also, the machine-code sits at location 49152 in memory. This can also be changed if you need this area of memory for your own purposes. To do this, you just change the value 49152 in line 20 to the new address you want to use and make sure that you use the same new address in the SYS calls instead of the current value.

10 FOR C = 0 TO 40 - READ A 20 POKE 49152 + C.A : NEXT C 30 DATA 32,121,0,32,253,174 40 DATA 32,138,173,32,191,177 50 DATA 166,100,164,101,132,63 60 DATA 132,20,134,64,134.21 70 DATA 32,19,166,165,95,56 80 DATA 233, 1, 133, 65, 165, 96 90 DATA 233.0.229,66,96

Restore to e line number progrem

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Introducing our new Happy Hocker. From this month onwords, Geoff Wheelwright plugs in the HH medem: Geoff wheelwright dote on whot's going on at Campus photon the condition of the condition of

Geoff con be contocted on his Micronet moilbox number 013280101 or vio his Compuner occount "CBMUSER" or vio his Telecom Gold moilbox: 83:NNL123. Phew, that's enough moilboxes. Geoff does spend the odd bit of time off-line so it may take him e day or so to reply.

- 4 RULES ON-LINE (Well, almost): According to Micromet's seemingly endless statistics department, headed by the enthinsiance Peter Probert, 64 sees now form the fifth biggest group on Micromet (and those statistics don't even take into account the number who might be insing non-Micromet moderns). Does this ware ran a big cheer? Not really.
- MUD-SLINGING ON MICRONET: The 'Net has revived Starme, as multi-neer rival to Compunet's MUD (Multi-User Dungeon) game in the wake of what it calls 'teething troubles' with MUD.

Up to 500 people can play Starnet at once (and British Telecont would be more than happy for you to do so) and Micronet promises the game is now a lot simpler than it was at launch two years ago—although no less chillenges.

Starnet is essentially a game of computer-moderatored space war in which you play the part of a 'star captum' and must challenge, form alliances and attack fellow gamers. You can find all this metergalactic carriage on page *80003034.

GALLERY GOES DOWN: Micronet

- has announced as first price hike on the Gallory exhibition area. It now costs you 99p per frame for up to a foor-month period, with each edit charged at 10p Estsuing exhibitions wanting to rebook can have their old pages transferred into the new Gallery area for a block charge of 99p. For details, contact the Net.
- ◆ COMPUNET CORNER: Enough of these Micronet missives, what of the Commodore-supported Compunes service — which everybody with real-live Commodore moderns will know about (and there are anywhere from 2000 ro 5000 of

yon — depending on whose statistics you

Well, the first morsel of news I can offer in crusers of the famous MUD (Maints User Dungeon) game. Century Publications has just sent me is copy of An Introduction in MUD by Duncan Howard—the first full length book to explore to ways and workings of playing MUD.

The £4.95 book methods an introduction by the MUD-mad Reichard Bartle and an extensive appendix showing the proceedings of a 'real' online MUD game. For those who really like to get their hunds dry with such adventures (groan . . .), this could be the definitive work.

- ♠ MORE MUD: Not only can you now bny a book about MUD, but you may be able to afford it by using all the money you'll no doubt save due to the newlyannounced Companet MUD piace cuts MUD now costs a flat £1.75 per hour and requires no mousthly fee or registratique fee
- ◆ YET MORE MUD: for free: Moles at Eastex University have severaled to HH a method of playing MUD whist paying oc ly for the phone call You actually play on East's DEC 10 manuframes, between 2 am and 7 am on weekdays and 2 am and 10 am at weektads (setting sleep doorn's seem to bother the MUD mad). First, voil need TJY terroring emple.

man spowers, and the terminal section of the common section section

maximum of twenty can play at any one trine — better start brewme the coffee.

 NATIONWIDE NODES: Compunet tells me it now has more than 50 new access nodes, which allow local-call access to the service Do you know what a node is?

The rate for the new access points in 60p per hour — in addition to regular BT changes — and Computer claims this will mean a saving of up to 63 per hour for some people who had to make long-distance calls to get onto one of the 12 original nodes (which will remain free of extra charges).

- ◆ SOFTWARE SELECTION The list of companies offering software on Computer's (slow, but naually reliable) software downloading service now include Adventure International, Antrog, Androgene, Coscade, Dutell Software, Interceptor, Melbourne House, Precession, Supersoft and The Edge/Softek So why go, 90% to your dealer on a cold and rame day?
- CHATTING ON PARTYLINE. It is a support of the party in the party

That's all the news for this iesse, but heep me posted of anything you heer in the acst few weeks. Happy Hacking . . .

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Codes and ciphers on your Commodore micro — Part two

by John Ransley

Remember last month's mirror coding, Caesar's Alphabet, diagram eighers and goold old Polyhaus's square? There are plenty more classic techniques left to explore, and most of them are crying out to be dragged into the silicon century. One of these is a hybrid technique called the grille capher, popular with the charming Machiavellis. Though goodness knows why they bothered - have you ever tried to read a handwetten Itolian menual

Grille Ciphers

The method involved writing an apparently inconsequential letter, but which contained several key words that formed the secret message to be enoveyed. The positioning of these words was determined by the apertures in a second sheet that was laid over the paper carrying the message. The recipient would have an identical window or gulle which, when similarly placed over the letter received. would reveal its real meaning So first of all, position one TV on top of

another . no, seriously, Here's a routine that works on much the same principle. First enter rhese lines:

- 100 PRINT [CLEAB SCREEN] 110 PRINT TAB(200):PRINT
- TAB(120) 120 PRINT "DEAR OLEG"
- 130 PRINT
- 140 PRINT "JUST A NOTE TO TELL YOU THAT NOT ALL" 150 PRINT "BRITISH PEOPLE
- THINK WE'RE SPIESU 160 PRINT "INDEED, THEY HAVE
- ENOUGH INTELLIGENCE" 170 PRINT "NOT TO HOLD
- DOUBT ABOUT OUR MOTIVES,"
- 180 PRINT
- 190 PRINT "YOURS, GENSCHER"

This program, like the others, is wutten an that it should run on everything from the Vic to the 128 But you can of course substitute other commands (such as SCNCLR in line 100) if you're using a C16/Plus 4 or 128.

- Run this first part and the screen wall display the text in the ordinary way. Now add these lines
- 200 GET KS: F KS = "" THEN 200 210 PRINT (HOME)
- 220 PRINT TAB(240)(PRINT TAB(200) 230 PRINT "[RVS ON][7 SPACES]
- IRVS OFFI 240 PRINT TAB(25)" RVS ON[[12
- SPACESIIRVS OFFI 250 PRINT TAB(7)"IRVS ONII4
- SPACES[[RVS OFF]" 266 PRINT 270 PRINT TAB[7]"[RVS ON]|8
- SPACES] (RVS OFF]" 280 PRINT 300 EVD
- Run this expanded version and the message will display normally again until you touch any key, when four words will be blanked out. Stringing only those words together will give the real meaning BRITISH INTELLIGENCE HOLD GENSCHER

Open letter cipher

A variation on this theme is the open letter cipher, in which a letter (most commonly the first) from each word at enotains separately forms the secret message. So your agent in the field might send you the wistful observation, "My enthusiasm eventually tapers away to nothing in November evenings"

Having received this, you could either pull him in for early retirement or, better still, use this little string handling routine 100 PRINT "TYPE WORD AND

- PRESS RETURN." 110 INPUT WS 120 IF WS = "FND" THEN 120
- 130 C\$ = LEFT\$(W\$.1)
- 140 SC\$ = SC\$ + C\$ 150 PRINT
- 160 GOTO 160 170 PRINT SCS
- 188 FND There's much room for improvement: for
 - example, you could have a program that accepts the whole message as a string that can be broken up into its separare word elements by using the invaluable INSTR function on the newer Basics to search for the between-word spaces It would then just be a case of joining up the leftmost characters of each word

The zigzag

There are many other eighers where purely visual confusion is sufficient to hide the true meaning of the plaintext. The suggest as one that is particularly easy to execure on your micro. In this, alternare letters from the plaintext are shown in the form of two strings one above the other, like this:

R D R P A S W L F L O LNIL OLW A A

Displayed in this way, it's really very easy to fathom that the message is RADAR PLANS WILL FOLLOW, but if the lines are interpreted instead as two groups of characters, the meaning is more disguised: RDRPASWLFLO AANILOL

To decipher a message buried in zigzag ende, use this couring 100 PRINT " TYPE IN BOTH

GROUPS WITH SPACE BETWEEN."

120 INDICE ME 130 FOR X = 1 TO LEN(MS) 140 IF MIDS(MS,X.1) = "

THEN 160 150 NEXT X 160 LS = LEFT\$(MS, X-1)

to character groups.

170 R\$ = RIGHT\$(M\$,(LEN(M\$)-X)) 180 PRINT IS

190 PRINT " ":RS Type in the example in response to lines 110 and 120 and the program will neatly redisplay the zigzag plaintext in its more decipherable form. You could add a second module that would automatically perform transcription from the original zigzag lines

Encode mode

In the world of secret communications and espionage, some of the most effective of all techniques are based on super-encipherment and enciphered code, usually shortened to encounter

First, you take your plaintext and turn it into a cryptogram or cipher using a fundamental technique such as mirror coding, using the program gives in last month's article. So for example, the first step might be to turn BORDER CROSSING CLOSED into DESOLO GNISSORC REDROB You can then

encipher this as zigzag to make-DSL GISR RDO EOC NSOC ERB

These characters in turn could then be grouped as DSLGISRRDO EOCNSOCERB. You won't find many people who'd be able to make much sense out of that - and yet it still contains every

character used in the original plaintext? Returning to making particular use of your micro in creating video secret messages, here's a gimmsck you might find

useful-100 PRINT [CLEAR SCREEN] 110 AS = "ILIGHT BLUEP 120 BS = "[DARK BLUE] 130 PRINT "HIDDEN HERE IS"

140 PRINT "A";B\$;" SECRET";A\$; "MESSAGE " 150 C = C + 1:IF C = 2 THEN END 160 B\$ = A\$:GOTO 130 This trick makes use of the ability to "hide" screen text in the background



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1	٠	٠	1				*	9		۰	٠	×	,						Ħ						6	e			ı	

* *********************** The Vigenere Table

............

colour - the word SECRET is there all the time Line 160 restores the usual light blue so that the whole message can be read.

Vigenère Table

Finally, using the knowledge gained from the mini-array program in Part One used to reconstruct a Polybus Square, you can now turn your programming skills to something a lettle more challenging - a micro interpretation of a keyword capher devised by the Blasse de Vigénere in France in the 16th century.

This uses a table (see diagram) made un of 26 ordinary alphabets plus two more (in capitals for clarity's sake) at the top and left-hand side of the table.

To encopher a message, first decide upon a keyword - say, micro, Your plaintext might be the words, SEND AMMO. Using the first letter of the keyword (M) look down the vertical slobabet on the left of the table and then read across the alphabet printed horizontally against it (it begins with m) until you reach the letter falling immediately below the capital letter matching the first word of plainters (S). This, you'll see, is "e". So that becomes the first letter of your code. When you've used up all five letters of your keyword, start again with M. Decipbering is simply a matter of working in reverse order - but you must of course know the keyword

Refer back to the Polybous Square routine and you'll see that your first task is to DIM a two-dimensional array 27 cells square. Then it's just a question of devising and writing a routine to crossreference the correct cell (and thus produce the cipher character) for every character of plaintext you enter The old national security budget's a

bit on the low side at the moment but I dare say that we'll be able to come up with a suitable prize (a tastefullyframed print of GCHQ signed by Clive Ponting, perhaps?) for the reader who sends me the most elegant and efficient program for a computerised Vigenere Table. Your secrets are safe with me . . .

ı

Penalty Shoot-out

for the Commodore 64

by Stephen Rushin

And the ref's blown up for a penalty. The tension mounts as Bobby Booter places the ball on the spot. Which way will the goalie dive? In which corner will Bobby place his kick?

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Sprite Loader

Main Program

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Fig. 10 residents

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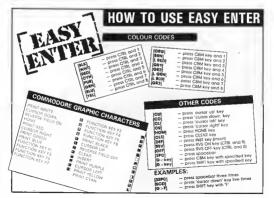
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continued from page 49

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2329 PORN-Y-VINDEW-3, NEMIT
2329 PORN-Y-VINDEW-3, NEMIT
2320 P
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Musical Keyboard

for the 16 and Plus/4 by Paul Tomasi



If you want to turn your 16 or Plus/4 into a no-nonsense musical keyboard, this is the program for you. A pictorial keyboard is displayed on screen and a dist appears on the appropriate key when you press a key on one of the two middle rows of your computer. Press ESC to exit.

```
PRINT
        CHR#(8)
CHR#(142)
0,6,3
   COLOR
106
       1,1
4,5,6
65298,196
65296,0
65294,0
COLOR
         95.6
   REM 1. POKE IN MACHINE CODE PROSPAM
   REM*********************
      X=8192 TO 8255
   POKE
       X.MC : C=C+MC
     DATA
   DATA
4552468
                                  ": VOL Ø: END
   REM**********************
      2. POKE IN NOTES
                      MSB
   REM*********
   FOR X=8704 TO 8768
       MSB : C=C+MSB
164
166
168
170
172
174
176
   REM 3. POKE IN NOTES LSB
80
82
   REM*************
   FOR X=8448 TO 8512
186
   POKE
      LSB
X,LSB
            : C=C+LSB
190
   DATA 6.49,0,0,0,0,89,0,127,169,0,0
```

```
196
198
                              DATA 229,197.0.0.4,32.0.0.5.9.0.0
DATA 84,108.0.0.152.13.0.0.173
DATA 243.0.0.227,192.0.0.0.210.0.0
DATA 0.0.0.0.0.0.0.0.0
DATA 0.0.0.0.0.0.0.0.0
DATA 0.0.0.0.0.0.0.0.0
DATA 0.0.0.0.0.0.0.0.0
DATA 0.0.0.0.0.0.0.0.0
DATA 0.0.0.0.0.0.0.0
DATA 0.0.0.0.0.0.0.0.0
DATA 0.0.0.0.0.0.0.0
DATA 229.197.00.00.0.0
DATA 0.0.0.0.0.0.0.0
DATA 229.197.00.00.00.00
DATA 0.0.0.0.0.00
DATA 0.0.0.00.00.00
DATA 0.0.00.00
DATA 0.0.00.00
DATA 0.0.00.00
DATA 0.0.00
DATA 0.00
DATA 0.0
        200
      202
204
206
208
210
            212
                                FOR X=8960 TO 9024
    214 PGAS X.B : C=C+B
216 PGKE X.B : C=C+B
218 NEXT X.
220 DATA 0.0.0.0.0.0
222 DATA 0.0.81.209.1
224 DATA 0.0.81.209.0
224 DATA 0.0.8.88.0
225 DATA 0.0.8.88.0
226 DATA 0.0.0.888.0
230 DATA 0.0.0.209.0
232 DATA 0.0.0.209.0
                              NEXT X

DATA 0.0.0.0.0.0.0.0.0.0.0.0.0.207.81

DATA 0.0.0.31.207.0.0.0.81.0.0

DATA 0.0.31.207.0.0.0.0.10.0.0

DATA 2.0.0.10.0.0.0

DATA 2.0.0.0.0

DATA 2.0.0.0.0.0

DATA 0.0.0.0.207.0.0.0.0.0

DATA 0.0.0.0.207.0.0.0.0.0

DATA 0.0.0.307.0.0.0.0.0

DATA 0.0.0.307.0.0.0.0.0

DATA 0.0.0.307.0.0.0.0.0
      FOR X=9472 TO 9536
READ DEL
POKE X,DEL : C=C+DEL
                              FOR X=9728 TO 9792
READ L
                                                                   X,L : C=C+L
                            READ L
P(KE X.L : C=C+L
NEATA & 0.0.8.8.0.8.0.8.0.8.119
DATA 0.0.1212.0.0.8.127.0.8
DATA 125.4.0.0.8.127.0.8.127.10
DATA 0.0.0.131.0.0.123.14.0.0
DATA 0.0.0.131.0.0.133.14.0.0
DATA 0.0.0.131.0.0.133.14.0.0
DATA 0.0.0.0.131.0.0.131.14.0.0
DATA 0.0.0.0.131.0.0.131.14.0.0
DATA 0.0.0.0.1
  290
292
294
  296
298
300
302
                              REM************
                              FOR X=Ø TO 23
                          FOR X=0 TO 23
PRINT X
NEXT X
PRINT X
P
    304
306
308
  310
312
314
                                                                                                                                                                                                                                                                                    TINE.
  316
318
322
322
324
326
338
337
3334
3334
                              REM**************
                              REM 7. WAS IT WORTH IT
                        340
342
  346
  348
350
```

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Commodore 64 Chart

GALLUP

Chart Chat

We usually like to boast on this page that "wa told you so" with our tips for the top dominating the highest positions in the cherts

Well just to prova that we are not afraid to own up when we gat it wrong Commando is the game that beat the CU upsters — riding high at number one in both charts.

In last month's headto-head compension we favoured Rambo by a short bayonet.

The tipsters were not complately bested though — with Winter Games and Little Computer People coming straight in a numbers 4 and 3 respectively

The most interasting new entry is Mercenary at number 10 — which must have sold very well indaed to make such an impact on the charts after only a few day's sales. It's a Screen Star, and it's one to watch in the charts.

With this month's other Screen Star — Rock 'W' Wrestle — it looks as though Melbourne House could well be at the top of the charts again soon,

AMORE OF CT	Security of the security of th
NEW Commando	
Rambo	Elite
NEW Winter Co.	
NEW Little Comes	Ocean
NEW Fight Night	ple Epyx/US Gold
The Last V8	Activision
NEW They o	Sydney /US Gold
NEW Areas A Million	Wastertronic .
Table Hall of F	Various
miller frame	Various
"ICI CEDACY	Epyx/US Gold
(A) of the Eury	Novagen
Elite Racing P.	Melbourne House
4 S Uestruck	Firebird
	Ariolasoft
ten start	Gremlin Graphics
Beach Head II	Mastertronic
Computer Hite to	Accessive
nction Biker	Access/US Gold Various
A.C.E.	
Pitstop II	Mastertronic
	Cascade
-161	Epyx/US Gold

General Chart

NEW	Commando	Elite	(11)	Finders Keapars
NEW	Yia Ar Kung Fu	Ocean	NEW	Little Computer
(3)	Thay Sold A Million	Various	NEW	Temahawk
NEW	Rambo	Ocean	NEW	Beach Head fl
5	Elita	Firebird	(15)	Action Biker
(6)	Way of the Exploding Fist	Melbourne House	(16)	BMX Racers
(1)	Computer Hits 18	Various	NEW	Arcade Hall of F
(0)	Formula Cae Simulation	Mastertronic	(1B)	Monty On The R
	Winter Games	Epyx/US Gold	NEW	Fight Night
NEW	Back to Skool	Microsphere	NEW	Gyrascopa

	(11)	Finders Keapars	Mastertronic
	NEW	Little Computer People	Activision
1	NEW	Tomahawk	Digital Integration
1	NEW	Brack Head ()	Access/US Gold
	(15)	Action Biker	Mastertronic
	(16)	BMX Racers	Mastertronic
	NEW	Arcade Hall of Fame	Various
	(1B)	Monty On The Rua	Gremin Graphics
Ï	NEW	Fight Night	Sydney/US Gold
	NEW	Gyroscopa	Mulbourne House

The Standard by which others will be judged.

This is Hardboll from Accolade. The first in a new generation software that sets the standard for others to beat; if they dan software that disath the shortdard for others to beautif, they often propholes so large and relities and such editios so and, you believe you softly one of the boil good profit or believe you softly one of the boil good profit or softly were considered to the considered for the boiling your own—but everything details here to recording your own—but everything details here to recording your own—but everything details here to recording your own were considered to the profit of the profit of softly and softly and softly and softly and softly and softly sof







HardB:

ByAccolade



Adventure Adventu

JOHN RANSLEY

Separations of today just can't match the spic mythical arristy. So if you think Upsase makes Hambo look vitamin belicient, this month's crop of adventures is for you. We less take a securing look at Masquarade and the majoatly builted the Snow Queen from St Brides remember Kay



Ulysses must ask the King what to di

Utysses and the Golden Fleece US Gold/Sierra GrA Price: £14.95 disk

Greek mythology has already served as the inspiration for more than a few test and graphic adventures, but it as such a trick vein of marvellous stories and fabrillous characters, limit wander that it's method to market the server of the beautiful or the

Ulysses and the Golden Fleece from Sterra On-Line, is now available in the UK on US Gold's All American Adventures

10u are Ulysses teborn and summones

by the Gods to quest again for the winds of woolres. You must first explore the tow in which you find yourself at the start of the adventure, recruiting a crew as assembling provisions for your performance, the best of the listend of Storms—there I find magical, mystratel objects that should

After setting sail again, you may even tually navigate your ship soccessfully to Colossal Island — where aircos, cyclops and lethally-animated skeletons pose you many more teasing challenges than a vestal vigate on a Club 18-30 formorby in

Confining the player as they do mainly to verhoous inputs, authors Bob Davis and Ken Williams we hardle to the runn.

ong for this year! Plantame Barner award bow the more! I have a bow ready profession, the more! worder whether an adventure's above true countries and adventure's above true award to accept endlessly concustomated commands in something that impresses other programmers rather more than the paying public. For even when multi-custed regular state, and day to seem that many gasters read, as I day, to seem that many gasters read, as I day, to make a many faster than there to figure out which of the three or more actions I've keyed is oliging.

At least the verbs in Ulysses extend beyond the usual GO, LOOK, GET variety to embtace — as befits a man of the gods — such useful get-outs as jump, fly and

Masquerade US Gold/American Engle GrA Price: £9.95 disk

Another new mle from All American Adventures — nod very different from Ulyssts — no Masquereade lit's a kind of guntahorsque queed by Dale Johnson first published only last year in the States by American Eagle Software — and of has a for

In their you play a detective who has the task of tracking down a notineous that man, and your day begins sharing a botel room with a body, locked briefcase and an empty magnum. Thete are plenty of people around who'd like you to make their day—witness the stacks of dynamiate tastefully



Contract or second order was also

adorning the phone booth in the hotel lob by, and the smister figure who keep shadowing you.

The graphics by Rick Incrocer are very

good melecul, remoding, are of the tryls to often Arthrolides — and they make even more for exploiting the parteles. The property of the partmaters in the part of the partmaters of the part of possible to tength between the graph of the part of the way that a beep to used to tength a signifition of the part o

Adventure Adventure Adventure Adventu

Odyssey Ouckworth TA Price: £9.95 diskleass

ur

Mike and Pete Gerrard have become something of the Boshers Gimm of microadventures, having between them written not only countless articles and books on pring ammang and playing adventures (Exploring Adventures on Your 68 and The Adventures Companion among them) but also an earlier Duckworth title, Infand Adventure.

The Chymry is in our and our rear adversary use this sock way 95 KF of that spread across two rapes in releving Homes's eperate of Chymrese's strengers to return kingstons, and to but furthfull wriet, after 10 krangstons, was excluded from the furnished proposed yourself for encourances with the mounter and the white/poor is the deadler mounter and the white/poor is the deadler oven before you writter us to EC style of Perpetual Miss and figure unt how to

game in progress — but bewaie that the SAVE toutine used in this instance totally reformats the disk you use, thus suppose

anything it may already contain
Graphics on Ulpsser are bright and
binasy—not no much detail but at least
they're colourful and jumbo size, and you
can toggle between graphics and the last
screenful of text—or that plump for reas
alone. All this and the chance to be the
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Graphics ***
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Intelligence ***
Tonghness ***
Value ***



Graphics
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Veline

*** THE ODYSSEV ***

After ten years the siege of Troy has at last ended with the destruction of the city, and you, king Bdysseus, wast make your way howe to your island kingdom of Ithaca, off the coast of Western Greece.

In all these years you have not seen your wife Penelope, nor your son letemachus, and rumour reaches your earthat all is not well within your kingdom.

ou must return to reclaim your throne,

ress 'space' to begin your quest.

escape the wrath of Poseidon and win the boatle that is this adventure's grand finale. The Odystey is, in terrus of its storyte, structure and scient presentation, a conadderable improvement on Island Adventure and it's far enough, and tricky enough, to give many, many hours of as Linerary Menit ****
Intelligence ****
Toughness ****
Value ****

■ ADVENTURE NEWS ■ ADVENTURE NEWS

 Globel Saftwere have round me with a few more details of Oid Scores, the follow-up to their first adventure title. The Magician's Ball Il will feature more than 240 locations around London's South Bank arts complex, hi-res graphics With detailed and "Islande lext descriptions" (can't be the South London I know), and Mozarl's Dice Waitz — The computer fulfilling the composer's intention that any of its 36 bars could be played in a random order and yel still produce a real minuel. Player features Include mulli-character encounters by making use of the voucher that comes with each game entiting you to a free hackstege four of the Royal Festival Hell

· Telerium have al last got Perry Mason into the courtroom to solve The Case of the Mandarin Murder Now you too can mercilessly crossexamine wilnesses, infroduce surprise evidence, have private counsel with the judge and try to make the jury weep - just like Erle Stanley Gardner's lamous creation Also, new-wave American science liction author Roger Zelazny has helped to adapt a brace of his bestselling stories in the creation of Telanum's other new title. Nine Princes in Amber, II offers a sfupendous 40,000 different game variations and no fewer Ihan 40 possible endings Both titles are available on disk only el £19 95.

- Sigma Books are publishing a new-slyle guide to adventure authorable, Adventure Description Lenguage, atmed at explaining the secreta of creating large-scale games on home micros Contents include chapters on how to write an ADL compiler and interpreter. Price is 28.95
- Hallo John got a new 128? Yan, ektcherly Ron — and I'm revelling in the goodies BASIC 7.0 brings to DIY adventure programning. Watch out for a couple of useful routines that make use of them in next month's column.
- · Commodore UK aren'l saving just which of Britain's top adventure houses are among the 200 software houses that have snapped up one of Their Amiga development kits but Adventure International, Level 9 and Melbourne House are certain to be on the list The Corby connection's quaint decision to market the Amiga — with its futuristic graphic and sound capabilities - as a business micro initially to run boring old spreadsheets and the like Isn'f considered a Bad Thing by adventure houses, who reckon that The young upwardly mobile types who'll want an all-singin' and dancin' Amiga on their desk now that the novelty of their cellular phone's worn oil are much more likely to lork out for an adventure to play in the funch hour than any ofher type of game. The rest of just sll, and wail, and save . and save

Adventure Adventure Adventure Adventure

Snow Queen St. Bride's Software Price: £8.95 disk

omatk, having won an envious reputation for quality software with Eurekal and then having lost it even more quickly in the eyes of many observers (myself included) with Friday the 13th (in which the paucity of the game itself was surpassed only by the vile way Domark chose to promore ith may kick themselves one day for not having exploited instead the works of tather classies exponents of horror, such as

the Brothers Grimm St Bride's Software seem to be the first to recognise the measure house of games ideas locked in the literature of the past century, and have in The Snow Ouren adapted Hans Christian Andersen's classic

children's tale with integrity and care Here is to be found the jovial but malevolent hobgoblin, Kay and Geida, that oddly articulate crow, the prince and the palace, and all the other familiar and fabutous elements of the master storyteller's magical art. The game makes the most of its origins in The Quill, and

the authors have it seems learnt from their experience of writing The Secret of St Brides the importance of unambiguous screen responses and crisin layout The Snow Owen looks well and plays well: it will soon have you talking to the flowers and charting to the taven - but watch your step at the inn, and that palace sentry doesn't need a bloood spattered hockey mask to make you know he means

> +++ Greebics ++++ Literary Mend Intelligence +++ *** Temphaese +++ Molan

ADVENTURE NEWS

- Ocean's new Laser Basic extended games writing language - an enhanced version of White Lightning - should be good news to would be Pete Austins for being eble to support full string handling hi-res graphics end most of the other teatures of commercial products. Watch nut for a full review in User soon. Meenwhile, still no sign yet (vewn) of Gilsoft's Innepromised Illustrator on disk for the 64 - in the absence of which is a 64 version of Incentive Software's Graphic Adventure Creator would be very good news . but will they release such an enimal?
- Etectronic Art's founder Tim Mott probably made time to court one or one dozen disenchented adventure authors on his recent British visit. EA, whose arcade and strategy dames are marketed here by Ariolasolt, may be a little envious of Infocom's grap on the Jucrative and prestigious text adventures market in the Stetes - and a number of 'serious' British software authore specialising In the genre are thought to be a little peeved with the policy of several domestic distributors and retailers to hendle only adventures that incorporate
- pretty pictures. . Just the thing to slap on the Dansette when you lire of ell those Noian Staters and Bleck Lece compilations gran bought you tor Christmes - a double album crammed with atmospheric music devised by Gery Gygax, inventor of the original Dungeons and Dragons board game. Lots of good rock Instrumentals, creepy verbals and special effects make it just the thing to pump through the cans (or Walkman - it's on cessette too) while tackling Winnie The Pooh in The 100 Acre Wood, or whatever It's on the Flimtrax label.
- Infocom have finally struck a deal with a British software deeler (as the Vailey predicted a couple of months ago) to market lower-priced versions of existing and new topdrawer titles such as The Hitchhiker's Guide to the Gelaxy. But the Intocom Classics range to be distributed by Sottsel will be versions that run on the C128 end Amiga but not on the 64 HHG will sell at £24.95 and pider titles such es Deadline, Planetfall and Zork I at £19 95 (they're enyway available in 64 versions from Commodore UK an disk at £11.99). I'll be reviewing the newest CP/M title, Seastalker, soon.

CHARTS

- The Worm in Paradise C64/128 (Level 9, GrA, £7.95). 2 (4) Adrian Mole - C84/128 (Mosaic/Level 9, GrA, £7.95) NEW 3 (-) The Lord of the Rings - C64(128 (Melbourne House, GrA. £15.95).
 - 4 (5) Savage Island (Parts 1 & 2) C64/128 (Adventure International, GrA,

 - 5 (-) Neverending Story C64/128 (Ocean Software, GrA, 19.95)
 - 6 11) Robin of Sharwood 64/128 (Adventure International, GrA. £7.95)
- NEW 7 (-) Seas of Blood C64/128 (Adventure International, GrA, £9.95)
- NEW 8 (-) Quest for the Holy Grail C64/128 |Mastertrone, GrA, £1.99| 9 (7) The Magistan's Ball - C64/128 (Global Software, GrA, £7.95) 18 (6) Terrormolines - C84/128 (Melbourne House, GrA. £7.95)
- Level 9's best-ever adventure, concluding the Solicon Dream trillogy in which Socioball and Return to Eden are the other two parts, deservedly races straight to the top spot in this month's placings. and our February chart also marks the Top 10 debut of three other worthy recent offerings

Chief among them (it is barely necessary to add "of course") is the stunning Lord of the Rings. Why bother to call it the sequel to The Hobbit? After all, a whole new mucro generation has grown up since Bilbo & Co. were first exptured in silicon back in the days when we all thought that the only good things to come out of Australia were Fosters, Barry Humphnes and Olivia Newton-John's return ticket. It's the most expensive rath in this month's chart but remember that the pack includes a copy of Tolkien's book and two versions of the game - one of them a simpler version for younger or novice players - at only £1 more than The Hobbir cost three years and

Adventure International's new-style Seas of Blood, combining combat interludes and other innovations with the solid craftsmanship you'd expect of a Howarth & Woodroffe graphic adventute, sails into sixth position, while Masteritoric's budget-priced version of Dream Software's glearning if not exactly golden oldse stays but on its heels

Global Software's first adventure title, despite a lake warm reception by some reviewers, ternains popular in the Valley, but it looks like the end of the season for Terrorraphnes Next month, will The Lord of the Rings wriggle their way past Paradise and into the top spot? Can Adrian Mole survive the charts for another term? And what are the chances of an All-American hero venturing into our chart? Watch this snace!

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Ulysses and the Golden Fleece

The Odyssey

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Going soft on the **Amiga**

Dan Gutman reports

Our man Stateside, Dan Gutman has been raving about the Amiga since he got a sniff of it in the Summer of last year. This month he reports back on the steady trickle of software that's coming through over there for Commodore's super machine.

things are looking up - at least come. they are in the States. The 64 is still selling in small quantities, the 128 is doing well, and the Amiga is getting rave feviews It started showing up in stores here in October, and Commodore claims to have shipped 70,000 by

Commodore's mission right now is spelled S-O-F-T-W-A-R.E. They've distributed 400 Amigas to American software developers, and 900 more have received the machine's technical specifications There's also the "Amiga Information Network", an on-line "electronic town smusre" so software developers can contact each other and trade

the end of the year.

One guy told me that Commodore deliberately flooded the stores in Boston and Silicon Valley with Amiess The reason? There are a lot of anemployed programmers who live in those areas, and Amiga needs software hadly. On the whole, the software developers who already have the machine are saying that Amiga is easier to program than Apple's Macintosh, which soffered from a lack of software for more than a year after its introduction

Broken

The higshots at Commodore, or even rumoured to be coming naturally, are optimistic. Frank Leonards, the vice-president of sales, claims there will be 100 Arniga programs by March Of course, Commodore also promis ed 35 programs by the end of November and we know what happened to that promise

Thomas Rattigan, the new grams so fat, many more to

Are you depressed president of Commodore, has come. Presently available Textbecause the manufactures been pretty honest about the craft word processor, Amiga of your computer lost \$39.2 whole thing He told InfoWorld Assembler, Amiga Pascal, Amiga million in the most recent (an American magazine), "It's Lisp, Amiga C, Amiga quarter? Hey, anybody can have not coming as rapidly as we Graphicraft graphics design Oba bad day And for Commodore, would have liked to have seen it wously, Commodore is making the tools to develop programs Because of the lack of soft- available for third party



wate, the people buying the Amiga right now in America are mostly hackers and software developers, who don't need prepackaged software. But we're also sceing a lot of artists lusting for the machine, as well as television stations, which are using it to design graphics. And of course, a los of Commodore 64 owners are leap-fromme over the 128 to buy America I've begun to compile a list of Amiga software that is available in the U S, soon-to-be available,

Software

· Electronic Arre anybody Their first effort is Deluxepaint, a graphics program airbrushing, mirror symmetry, 32 colouis on screen at once and seen it, but I hear it's great. Music Construction Sci, Deluxe chance Printing, and Delaxe Video

Construction Set, which will and steree sound • Infocom - All 18 of their in-

already out for the Amiga. These guys have a easy. Because their gatoes are all text, it's very easy save. Tramed always seems to to part their stuff from one find a way to do it

 MaxiSoft (Pebble Beach, Celifornui - Two programs MaxiComm, a comr package, and Maxidesk, a Dackage of desk accessories.

· Sublogic - Flight Simulator Il They haven't announced this yet, but everybody knows that the best selling competer game in the world is in the works for

the Amiri · Chang Labs - Recs.To. Riches, a series of accounting programs

Lattice (Glen Ellyn, Illinois) - A bunch of programming tools on the way Unicale, dBC III File System, Text Utilines and others

 Enable — Enable/Calc. Enable/File expected by the time you read this. By the way, Commodore is hyping up the Amiga business programs and downplaying the entertainment programs Conventional "avidom" in the U.S. is still that the home

computer doesn't exist. Fools That, of course, doesn't even scraich the surface of software that's in development. Other companies are openly discussing plans for the Amisa Amone them: Mandscape, Activision Microsoft, Broderbund, and Epvx. Naturally, I'll keep you posted. It doesn't seem like there's any doubt that within months the market will be swar ming with programs. That's good for Commodore, good for the software companies, and good for you and me Apple, IBM and Atan may not be too happy about it, but that's another column. Amiga is here

Last word on Tramiel

These Incidentally, Commodore fans guys have been singing the might be interested to know how praises of the Amega more than old lack Tramiel is doing over at Atari. As you know, Commodore's long-time chief bought that features three brush styles, the company about a year ago. Well, amazingly, the new Atari 520ST is selling very well over a silison other features I haven't here. For a long time people were saying that Jack was crazy Other titles on the way: Deluxe and that Arau didn't stand a

But Jack got the 520ST out the door before Commodore put the support real colour animation Amiga on the market, and it looks like Atari will be with us for a long, long time. In fact, a teractive fiction programs are lot of people here are buying the 520ST instead of the Amiga because the ST is so inexpen-

See y'all real soon,



strome once again to the column that brings you the flotsam and letsam of the software world the page that trades in truths (wett half truths) and (set on with it

Right, well you mey have wondered why, when you went into Boots and John Menzies te buy your copy of Friday 13th you got a tape with a black cover. Wett the two stores refused te stock the same with that testeful cover - you know the mask with the knife through the eye. Boots also obected to the blood capsules something to do with it being a phan marist Undeterred Mesors Strathan and Wheatley - directors of Domark - sent but a Christmas card with them in seasonet Senta geer bran dishing chainsaws in front of a walt

covered in blood Sticking with Domark expect a simulfaneous release of a record, a video and eigame soon. The company are currently negotiating a game has ed on the M Peo Music single (remember? Talk about -- pop music') with the record being rereleased to

coincide. More into soon Now a few non-appearences, it's a case of 'Scoolty Scooby Doo where are you?" because the game has been shelved "Postnoned indefinitely" te aucte Ette's Siteve Wilcox precisely (as falways do). "What we had was exceptional but we couldn't get enough of it in " Sates of the 128 might lead Steve to consider a 128 only version Another article less likely to be missed which has disappeared into that great Bermuda Sottware Trrangte is Challenger the £1 000 gaiz game Seems the prize wasn't enough for

t you ve seen a copy of Bladerunner at all, you may notice that the package ing declares that it is a Video game interpretation of the frlm score by Vangelis'. The reason being that when CRL decided to make the same. they couldn't trace the fifm rights. It's room in my coining that the name's music should be the best aspect of the

Where's the System 3 hotshot you

Games Plus lames Plus Games

NCAT WILLIAMS This poisonous fittle cote Me oF To P.P. U. HE VE PECONIY FOR 7 CFUTE LEAC. reliably informed, you just here to be nationt. Watch of POT BERRS IN

popped through the letter box recently I must edmit I have to admer the style of at. These people have a defeate aim is mend Max your average remorish organisation either. Lourhe es I em to edmit it, the lit tle computer pillocks mey have their uses arrange them or dry at noise. Nevertheless more info on the DDI O would be appreciated in cidentally I've been getting cells asking me why some of them don't have names The appears is that only disk version has them They do take showers I am

Cousens probably expecting another

draw some massive conclusion about

The same makers were m a cheritable

set up to help young people with drug

and alcohol problems

from all these varigated styles? No

Ette, Beyond and Melbourne House Once again the whole computer games husmess is rallying mund with support for this good cause magazmes with free advertisme space, distributors and shops with no margin' shell space and executives from Software Companies with their time to administer the tabe. The full list of titles for the 64 tape has not yet been released - though we do know it will have six pames on it

and cost £6.99 Te get "Off the Hook off to a sparktme start a vintage bottle of champagne was auctioned at a prestigious dinner in Lendon's Park Tane After a series of hids and counter bids from US Gottl@cean/Centre Soft and all their affiliated American labels on one hand and Firebird/Beyond/Epyx and Melbourne House on the ether common sense finally settled upon the proceedings and it was decided that no one com pany or group of companies would win the champagne but that everyone who had bid for it would share it at a cost of £1 000 each

Melbourne Heuse's boss Geoff Heath was the peece maker who preserved the most bid — though not before his eld company. Activision received some noisy beckfing for

retusing to bid There were fourteen takers in all peared in a very dark suit. Jelf Minter arrived clutching e plastic bag and which worked out at sheldly less then sporting an Atghen ceat. Rod

a hell e glass each - certamly the most expensive drink ever supped by sward, was in a dinner surt, and Acone Clement Chambers - boss of trasion's Andrew Wright was sporting CRL - drafted in because thirteen his distance brares on shirt sleeves was considered an unfucky number. If and Wratt Earp tie took. Am I about to certainly was for him

"How did it taste. Clement" this Hot Shots lager enquired "Not par the state of the software industry ticutarly special just a dry sparkting white " saud Clem, with a brave smile But it was not all sweatness and light at the game makers annual Xmas bash. Some of the women guests pro-

the Prince's Trust — an erganisation tested to the organisers when a stripping police woman turned up to read a Soft Aid II will be cated 'Off the poem and plant a kiss on the cheeks Hook" with pames from most of the of Greig Ingham - the editor of the

major companies in the business in- trede newspaper. Computer Trade ctuding U.S. Gold, Frebird Activision. Weekly Tacky Greig tacky

he dress styles in evidence "Am I bid in a in nineteen thousand for this bortle" asks Rary Microson's Mike Meek was there in a Bremmer Devid Ward ducks for cover Con you spot him readers?

ask? Mark Cale asked the same thing I to the start. Plat Pratt of Furtherd an et the our Christmas party. What you genna write about me this month? he slurred, pouring a glass of wine all. over a C&VG secretary "He? Nothing | soluttered "But | did set a phono call from your PR men Leste Bunder earlier todey ennouncing he hadn't been sacked for some strange reason ""Rubbish," cried Mark brandishing a bottle "of course he was sarked!" incidentally Archer Maclean is currently working en listernational Karafe for System 3, the programmer mood again this Christmas enhound responsible for the excellent Dron- we their second Soft Aid took in aid of

D.P. 1.0.

ARIN HETT!

The buttle between Eite and Altigata ever Commando Whe Dares Wins continues. Both sides are convinced of e very profitable victory in this software whoduniit, but Allisata were so pleased at the changes that they were torced to make to the game that a representative expressed the wish that " we get a writ every time we try to put out a game it that's what happens

As for the Commando y Rambo shootout it looks like Filte won that one, but it seemed to me to become as much a battle of the bugs. Did you know that you can release the rest of the POWs m Rambo before you have freed the first man in some versions? Or that by changing to the right of the screen whilst tines in Commando you can make GI Joe disappear completeiv? Maybe you did

Whist we're on the subject of the Emap Xmas bash I netroid some of

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Success The Epyx Story

by Dan Gutman

You can't call yourself a true gamester if you don't own an Epyx game. The quality of games that has been coming across the Allantic from them has been staggeringly good. Sports simultations, racing games, plotform games, whotever they put their hand to becomes a classe it seems. We sent aur man

The skiier waits poised of the top of the jump. The bell sounds and he begans his descent. He slides down smoothly, rushes to the hook of the fuench, and this grocefully into the oir. He hongs there for what seems like an eternity, tills his body forward, and executes a perfect loaning. The crowd goes wild.

in the U.S. Dan Gutman to

find out how Epvx do it.

You're not wotching o preview of the 1988 Olympics — you're ploying Winter Games, the number one Epyx title and one of the lirst titles ovollable for Commodore's spectaculor Amiga computer II you thought he C.64 version was good, the Amiga version will

blow yes tweey, while most of the other componies in the Slotes release the same old first disease or similar to the same of the state of the same of

The company — localed in the heart of Silican Valley — was started back in October 1978 by Jim Connelley, a rabid Dungeans & Dragons fonatic The libree-mon company called itself

"Automoted Simulations" of the stort, ond released Temple of Apshai — one of the Iarst microcomputer games In 1980 they changed the company's name to "Epyx". Why Epyx8 Because the games they created were "Epyic".

noture
"The nome "Epics" had already been taken by somebody else," remembers Vice President of Marketing, Bob Both, "So it was changed to "Epys" to sound a little more to computer-essue.

more to computer-esque.
Today, Epsy games are distributed in more than 40 countries [in Britain their games are brought to you by U.S. Gold] Epsy took in nearly \$20 million in revenue lost year Jim Connelley left in 1983 to larm his own software development group, but the hits kean coming.

From the stort, Epyx games have been different. When everyone else was churning out the eye/hand coprdination "blow their broins out" shooting gomes. Epyx concentrated on strotegy and thinking games (In fact, the Epyx logo is Rodin's statue of "The holding a joystick) Temple of Apshai got the boll rolling, attracting hoordes of adventure game lovers In 1983 Epyx turned science fiction guru Isoac Asimov's bestselling book Robots of Dawn into a bestsellng oll-text gome. Even the traditional joystick gomes become strategic under the Epyx lobel. In their 1984 The World's Greatest Baseball Game, the octual statistics of major league bollployers are in the program Instead of moving stick liqures pround the screen, you juggle stolistics and make ducisions. Epyx games almost always require players to use their brains more then their thumbs

At the same fine, Epys, it well known in the Stoks for their district graphics One look of Summer Games is praced of that Olympic events, the opening and the opening of the opening opening of the opening of the opening op

Lost year's deal with Lucostilm (Star Wars, etc.) assured that the graphic excellence would confine four Epyxflucostilm games have been released, and more are an the way In my opinion, 80lblozer – sort of an intergolack as occer game – has the most exciting graphics of any comparison of the control of the

Recently, Egy, two exponded to multiple non-methodise non-methodise non-methodise non-methodise non-methodise non-methodise non-methodise non-methodise distribution of the front of the fr

Talk with the boys

That brings us up to the present. Whot obout tomorrow? Recently I had the opportunity to sit down with Bob Botch, Vice President of Marketing, and Mott Householder, Product Manager of Winter Games We chatted about the compony, their latest success, and the future

D G Do Epyx gomes sell differently oround the world?

B.B.: In most coses, no. Im-

possible Mission was on exception. If was never a super hit in the United States. But in England, Europe and Australia, it was Gome of the Year. It's bean our bestseller overseas.

DG - Europeans don't play much

boseboll or football. How did The World's Greatest Baseball Game and The World's Greatest Football Game do over there?

B.B.: There's o lot more interest in those sports thon previously, but they weren't

in Silicon Valley

big sellers. The prablem is that bath games are strategy intensive, nat actian games. If you dan't knaw all the rules at the game, it's nat much fun. It's the same thing with saccer. You dan't see many camputer saccer games in America.

D.G.: How did your Fast Load praarom come obaut?



our "Varpal system," which is even faster than Fast Laad. D.G How did you team up with

boosilists

B.B.: We started talking to them same time aga, not knowing they were tied up with Atarl. As it turns out, Atarl was said and the new management decided not to go into the game area. I would guess be a supported to the same area. I would guess the same area. I would not save young the same area. I would have said to be with them and they fail to ble with them and they fail

camfartable with us.

D.G.. They really but the mork with

8.8.: That ane was ariginally designed for the Atari camputer. The designer was a very lost inch at the designer was a very lost inch at that computer. When we tried to part it to the Cammadare 64, we ran into mare prablems than we expected. It was custam made for the Atari.

D.G. Does Epyx buy programs fram outside developers?

B.B.; We have a development group that lacks at praducts from the outside. We're constantly looking far submissions.

D.G.: The camputer industry in the States had a rough year in 1985. Haw do you reply to people who say the hame camputer is dead? B.B.: If they could see our

sales numbers every manth, I think I cauld change their minds.

D.G.: Let's talk about your latest hits Did the same people create Sumners Gromes, Summer Gromes, Il and

Winter Games B.B.: Summer Games and Summer Games II were dane by the same graup af peaple. They didn't da the graphics ar cading far Winter Games, anly because they were all warking

an ather prajects.
D.G. Mott, what was your rale in Winter Games?

M.H.: The game Itself was mastly carried out by Bab Ogdan af Actian Graphics. But it was a team effart. A different person did each at the translatians for the Apple II and Macintosh. My jab was ta da the general trauble-shooting and fireflighting.

D G: Ferfejting

D G: Ferfejting

MA: I. That meand see that
they're fixed, For Instance, Intellege to the
the bietholan event, we
originally didn't hove the tagic
ting it. You just fired the shots
off, May cantribution to
gene was to suggest that we
gome was to suggest that we
are to suggest that
are to suggest

And in the babsled event, you'll natice that the sky scralls by when you turn carners. Originally, the scrolling wasn't smaath enough to mee Epyx standards. I suggested that the sky be scrolled more techniques for daing that. That was harder an the Apple versian than the Cammadare version.

D.G - How long did it take to finish the whole program?

the whole program?

M.H.: The total canceptian ta campleted product taak nine manths.

D.G. Eoch event in the pragram hos its own musical theme. Did are guy do all the music? M.H.: Yes. Dayld Thiel, He did

Bob Botch contemplatas profits on an even mote epic scale



Continued on page 71
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the music on all farmats of the game, and it really shines on the Cammodore 64 version. David wrote the original music, and he wrote the code to implement it.

D.G. What made you choose ski jump, babslad, figure skating, hat dog, speed skating, and biothlen as

M.H.: We considered all the winter events we could think of We picked the ones we hought would be exciting, and we wented boroad voriet, and creative events, and creative events, sketting was odded pretty for skotling was odded pretty for strong with thought that we expend the wenter of the went

D.G. Are you planning any games for the Commadate 1282

B.B.: The 12B made is really not a "gome" made. As for as our games are concerned, they will be 64/12B. As of yet, we have not found a way to use the 128K and still use oil the graphics that the 64 has to offer.

D.G. What are your plans for the

8.8.. We will have Winter Gomes out in the U.S. in April. We have ane event dane—the ski jump — and it's unbelievoble. Our plans are to have three products an that machine by April.

three products an that machine by April.

D.G. Matt, what's your impression

of the Amigo?

Epyx's latest game, Erdo'on — Activision UK reckons it wipes the floor with Koronis & and Balliferer

M.H.: It's a professional quality modifies especially for people who are ortists, designers, and musicions. The translations, we're doing ore going very smoothly. We're porting the graphics from the C-44 to the Amigo, and then we're going in a mod moking with the company of t

the Amiga version.

We haven't decided on the contrals yet. The Amigo comes with a mouse, but it's not the most ideal control.

B.B.: Let's say there wan't be a Winter Gomes II but there will be something I think the public will like just as much next year. D.G.. Spring Gomes? Fall Gomes?

D.G. Spring Games? Foll Games? World Games? The Miss America

B.B.: I won't tlp my hond an thot one. Next foll we'll hove samething that will be as well received as Summer and Winter Games were, and I think it will be even bottor received in England. That's just a teaser.

D.G. Will there be a Winter Games

Bob Ogdon, who created Pitstap for Epyx, was the programming genius behind Winter Games. We asked Bob if there were any obstacles he encountered in the design of the game. "About a million," he replied. We don't have room to print them all, but here is a brief behind-the-scenes look at each event in Winter Games.

FIGURE SKATING: "We took jucures of the Olympic videotopse and digitized the limages from the comero dedigitized the limages from the comero because of the digitating water their clean, but it gove us no idea of motion and bolonica. Then use did hand sketch bolonica then use did hand sketch them in our system. There was so much mean our system. There was so much omitton that one memory was a freedown problem in all the events. We was no problem in all the events We was to problem in all the events We was to the event of each performance, but it of the end of each performance, but it is the size of the end of each performance, but it is sufficient to the vice of each performance, but it is sufficient to the end of each performance, but it is sufficient to the end of each performance, but it is sufficient to the end of each performance, but it is sufficient to the end of each performance, but it is sufficient to the end of each performance, but it is sufficient to the end of each performance, but it is sufficient to the end of each performance, but it is sufficient to the end of each performance, but it is sufficient to the end of each performance, but it is sufficient to the end of each performance, but it is sufficient to the end of each performance t

SKI JUMP: "It's truly on exching, scory event, and we wented to perscory event, and we wented to perscory event, ond we wented to perscory event. The idea was to give you oclose-up of the person in the lot, and or
the some time give you the overoil picture. The computer is constantly
pushing the figure in o rondom directure. The computer wenter is constantly
pushing the figure in o rondom direcos you get straight, the computer
chooses onother direction and pushes
you that you fit's relamites. I doesn't

stap pushing you until you get close to the ground " HOT DOG: "This one was really a lat

of fun I he key is to spend time learning how to do each moneouver and when to come our of ir. The whole thing to be to

SHATHLON: "It was put in there to make something completely different. It breaks up the pace of the other events, which are more tense, action/reaction type of things. You have to learn a different set of skills. If you warrowerk yoursell, you won't go

as leat as if you go in the correct rhythm. For the bockgrounds, we shot some scenes of the Olympics with a comero to get an idea of where we were going to go. The rest was done freehold by Steve Johnson in this event we talked about showing different views of the sker, but we deaded to stick with the side view."

BOSSLED. "This word definitely he hordest event to program The Commodure, Apple and Mocintan door's modure, Apple and Mocintan door's modure, Apple and Mocintan door's modure and the second of the s



Rotronics DX-85 printer reviewed

To get good quality print from your Commodore micro you've simply got to buy a non-Commodore printer. And that involves you in all kinds of interfacing problems. Wouldn't it be nice if you could just plug in a carriadge? That's just what the Rotronics DX-85 lets you do. It may not be a thing of beauty but you can't judge a printer by its cover.

A printer with a "Bertish Made" symbol on it is a rare sight these days. But rhe most striking thing about the Rotronics DX-85 dot matrix printer (Samleco if you take the sticker off) is that it's an ugly

That's due to the fact that it's been around for over a year now in the corporate market. Rotronics has now decided it's ready for the bone. The muards may be tried and rested, but ontwardly a resembles the back end of a Food Popular and weighs as much as a month's groceres.

Externo looks aude, the DX-85 has lest to commend it, primarily rif sease of connection to your Commenders. No fiddly merface adaptors to buy, the DX-85 offers oprional plagen interface carrindges Commodore, Centrourses or 8-232 Ir's also Epoon-compatible, sunting to compete with the low-med Epons (RX, PS) and Sear DX-95 offers are considered. At 2235 (mr. VAT) for the Looks of the DX-95 offers are considered as a positive positive properties at the DX-95 of the DX-95

The Specifications

The DX-85 is an 80 column printer (136 columns in condensed mode) which prints bi-directionally at 120 characters per second It's got a 9 by 9 print matrix which gives true descenders — the tasks on letters

Example of the DX 85's print quality

iske 'p' and 'g' You can also get doublewedth, underlined and emboldened characters.

Although it copes with both single-sheet

Although it copes with both single-sheet and continuous statemary, there's no liftoff tractor feed like the ones you get on Srar or Epson models. Instead, a tractor appears at either end of the rubber roller together with two paper retaining clms.

This is neat ride but it adds to the aheady clumsy method of meeting paper. Another clumay device is the knot his sets the gap between print-head and paper—a Heast Robmson affair of ever three was one. At least the ribbon cartridge is simple to meet it's a type used by Mannesman Tailly so replacements should be easy to acquire.

Round the front, there's the usual panel of lights and switches on/off lime, form feed, line feed (unusually there's buttons for borb up and down), power and error lights.

Germy made the machine is simplicity medil. The cover in himsel at the back and lifts up rather life is ear bonnet — no clips or strews to uninstein. Under the bonnet, sorry cover, is a staggering array of 28 DIP wireless. Luckey, some of them apply only to the particular miterface you're tunng, and they're large enough to be set with your finger rather than furnibling around with the insula toothprets.

The chassis and print mechanism might will have been conceived by an oil ng designer. There's lots of chunky metal bars and a motor that could drive a milk flow. I didn't try if, but this machine could probably survive a headlong trip down the stairs. The insides set limed with flown rubber no dampen the print screech — it works well, to.

Commodore graphics are reproduced

Up and running

The DX-85 on review came supplied with a Commodore interface eartridge that samply pluge into the slot at the back A senial DIN cable connects it to your micro or disk drive. The printer can be set to device number 4 or 5 through one of the DIP switches, and to accept either.

Commodor or Epson control codes
With this set-up, the DX-85 behaves like
a standard Commodore printer, and you'd
specify such in the 'customissision' facility
on any proprietary software you're using
When you paint program listings, the
standard OPEN and CLOSE for ona is
used, Commodore graphics and control
characters are reproduced fauthfully

The DX-85 worked well with all the software 1 could throw at at, whach expected to output to a Commodoise printer — from wordprocessors to databases to accounts puggrams But you'll need to fiddle with DIP switches to get correct settings for the paper you're using.

It also dealt with a waterty of graphics poskinger than offer a creen dump facility. Print speed was faster than the Epson RX models with the added boous that time feeds were also quicker. Print quality looked identical to the Epson RX in terms of dot spacing and density SM setting the DX-85% print head closer to the paper gave an even denset and refined and remained look to

The nest manual as chanky ture board affine that constant part about sill the information you'll need recluding setting up, trouble-holosing, and technical descriptions and diagrams for each of the metrifices in my copy the Commodore seemed to be mussing deripse being metricular to be mussing derivation of the contents paging. The Commodore programmer sexions shows the content paging the metricular to be must be desired to the content paging the metricular to the metricular t

Interfoces and prices

The choice of interfaces alone makes the
DX 85 an attactive proposition In about,
you've got a true Commodore pusiter
which can still be used if you decide to
upgrade to a non-Commodore misco. And
there's none of that mensing around riving
to find an interface adopto: that actually
does what you worst it to

Now for the prices as meotioned, a DX-85 with Commodore cattridge costs £233 95. The same model with Centronics interface comes in at £199 95. So to

acquire both interfaces you'd probably buy the Centronics version and pay another £33 for the Commodote cartuigle By the way, an RS232 set-up would cost £217 95 (all prices include VAT). In all, that's considerably cheaper than the more popular models, plus a reasonable interface adaptor.

Conclusions

Apart from its hooks and the cumberome method of paper insertion, there's linie about this printer to be faulted. It's quick, built very robustly and looks like being reliable under and looks like being reliable under Commedoer printer without problem with the advantage of compatibility with other computers. Even on the first point, Rotronles reckons the DS-85 will get a facelifit in the early part of ¹⁵⁰ — it was essentions. The the price, (if ye out to be a bargain.

DX-85 dol-malitix printet
 Rotionics Ltd
 Santosh House
 Maribotough itading Estate
 West Wycombe Road
 High Wycombe, Bucks
 tel: 0494 457257

ptice.£199 95 (Centronics)
 £217.95 (RS 232)
 £233 95 (Commodate)



Here it is, our comprehensive roundup of business software specially written or adopted for the 128. We include a guide to acquiring the much-rollked about "wealth" of CP/M software, and a preview of the world's most popular diobase for micros — disse II,

Ned for the 128. We nuch-tolked about 1 a preview of the profession of the professio

COMMERCIAL SOFTWARE FOR THE 128

At this early stage, there is not prition of business software available for the 128 — we counted about half a dozen packages available now, with perhaps the same number likely to be coming on stream very soon. Some of these are versions of \$8 software typeraded to take advantage of the 128 below of the price of the counter of the parts of the software should be will tried and tested. By the way, all software likely below in disk-based!

Beware of programs that claim to be "128 compatible". All this tends to mean is that they will run on the 128 in 64 mode, without taking advantage of the 128's power.

VIZAWRITE CLASSIC

Price (disk):	£99 95
Distributors:	Viza Saffware, 9
	Mansion Row.
	Brampton,
	Gillingham, Kent ME7
	5SE (hol) 0624 9427800

Though it came out month after it was first promosel, the 128 version of the well respected Pizzarzz is now available, and seems to have been well worth awaing for. Based on the enhanced version for the Commodore PC-10 and other IBM composities, it has some extra fiscilines which work even swallable for the big which work even swallable for the big calculator, or muchines, the a publicary calculator, or muchines, they a publicary calculator, or muchines, they a publicary column or ow addition or withy of doing

It has so many goodies that it needs to access the 4k in the carridge, which was originally intended merely as a security device. Text area is about 55k and the second bank is taken up by the huge glossary capability, prairer profile and default format, as well as the actual program

It has a choice of three different symplectic front for use with det marks printers [five on a laser printer], printers [five on a laser printer], printers proportional spacing. Emboldening and underlining can be seen on screen and formatting symbols can be removed for very close WYSIWYG (what you see is what you get). A mice touch as that if you are highlighting an area for block move, you can specify that it looks for the next

eccurence of a character (say a full stop), and it will zap to that, speeding up the process considerably. It can produce near-leiter quality on 801 or 803 printers and supports Epono and compatibles and all Commodore printers. Configuring any other printer is very easy.

Interestingly, x is claimed that with a £20,70 RS232 cibe attached to the 128 user port, it is possible to access electronic mail without leaving Vizawise, and send documents. This cible can also be used with serial primers. A similarity priced parallel cibe for Centropies and other parallel printers is also available. It is possible to arrange tests in up to

eight newspaper-style columns and prant them out that way. It has fully-innegrated spelling checker and the windowing capacity allows several documents to be held in memory at the same time, and text to be swapped between them. Full review next month.

TRANSACT

Price (disk):	\$99.00
Distributors:	Diolog
	Debden Green
	Soffron Walden
	Essex
Phone:	0371 831009

Dialog of Essex have a comprehensive range of business and productivity software for the 128—some of which have been converted from the 64. Transact Integrated Accounts offers

fully integrated facilities for sales ledger, general ledger, purchasing ledger, and final accounts.

The Book Keeping section of Transact is

The Book Keeping section of Transact available separately at £49

STOCK AID CONTROL

Price Distributors:	\$34.00 Dialog oddress as oboye
------------------------	---------------------------------------

Software Roundup by Karl Dallas

Full stock control program with all necessary facilities. These include Current Unit Trade Praces, Current Unit Sales Praces, Last Entry Dates and Details, Minimum Stock Levels, Re-Order Accounts, and many more.

HOME ACCOUNTS MANAGER

Price £34.00 Distributors: Dialog oddress as	above
Distributors: Diglog	above

Getting the computer out of the cupboard setting is 'up, plugging it in, and rhen loading's piece of software may seem like a long-winded way of running the family accounts. The intentive is now much greater thanks to the sophisticated packages made possible by the 128 braleg's Home Accounts Manager its an early example. Features include expenses, and dependers as well as an address file.

Lake all of Dialog's 128 programs Home Accounts Manager is available in 40 and 80 column screen formers

TEAM MATE

Price (disk): Distributors:	£49.95 Team-Mate Sattware Debden Green Saftron Walden Essex CB11 3LX

A single-disk integrating package (from America), linking 80-column wordpro cessor, spreadsheet, database and hires graphics. Data can be moved between programs without changing disk There's also a 'wandowine' facebre allowane was to view data whilst working on another

Spreadsheet gives a tiny 17 column by 50 tow format whilst the database gives a may statues connective of 999 records with 17 fields per record and 38 characters per field. He-tes graphics offers me chare but graph and Ime graph with positive and negative values, and text. Finally, the wn section has a 'view' facility allowing you to see where data will be positioned in file when printed out



MICRO SWIFT

Price (dustr). 624.95 Distributors: Audiogenic PO Box 88 34-36 Crown Court,

Readina Berks RG6 4.87 (to) 0734.444644

Max No. of Calls (Hor) 64 Max No. of Cells (Ver) 254



This runs more or less the same as the familiar 64 version, except that the maximum number of horizontal cells has been increased to 64. It's a good, easy-touse, farrly powerful sheer, with pull-down menus which make things easy for the firstexperienced, who may find them infunating

However, they'll probably be getting into using its Basic-like language to program it. making customized versions a real practicality. The functions available include the usual mathematicals, SUM, MINIMUM, MAXIMUM, MEAN, COUNT, SQRT (squate root), PV (present value), VARrance, and STD (standard deviation), as well as GOTO, IF and IFGOTO, providing automated motion about the sheet

The packaging has been kent low to cut the price, but it's wonderful value for the money, and actually worth a great deal more.

SHPEDRASE 128

Prime (clisic)

mm Precision Saftware 4 Dietribudaer. Park Terrace. Warcester Park, Surrey Rei. D1-338 7166)

Max reca per file: Disk-dependent Max fields per record: 127 Max chars per field: 225 Sevicenstant helds 301 Max chars per record 1407 Programming/variable space: 62k

Widely reversed, widely prosed. Superhose is everything that's been said of it, a little expensive, you might think, but well worth the money The most notable improvement the 128 version has over the 64 is the extra memory allocated to programs and/or variables, which is a long way up from the 4k programming space available to 64 users (rhough files could be littleed). It can also be held in memory together with Superscript 128.

SUPERSCRIPT 128

Price (disk) Distributor

£89 95 Inc VAT Precision Software Ltd. A Park Terrace Worcester Park, Surrey Telephone: 01-333 7166

Text memory: 726 lines × 80

columns main memory, plus gnother 255 lines in the second bank of memory, amounting to a total at 78.480 characters

Slap-on-the-wrists time first I erred last month in stating it costs only £20 to upgrade from Superscript II on the 64 to Superscript 128. The cost is 169.95, but I still say it's a baccoin.

It's an entirely menu-driven program, naking the manual almost superfluous Help screens are available by pressing <F8> (or <FI> <H>). It includes an extensive "glossary", allowing complex keystrokes to be allocated to single-key "macros", and an on-line spelling checket built in. So that it is possible in access even its most sophisticated commands without constant reference to the excellent ring bound manual A calculator function allows up to 10 decumal places to be defined (2 are the default), multiplication, division, addition or subtraction (down columns or along lines). The result can be inserted into a document or held in memory for display

Unlike the 64 version, the 80-column screen produces virtually WYSIWYG There is a VIEW DOCUMENT opiton. which strips away all the formatting, and shows the document more or less as it will be formatted, highlighting special features like underline, bold, expanded and

when required

condensed type, subscripting and superscripting.

Superscript 128 can be used in consumtion with Superbase 128, and both can be held in memory simultaneously, allowing the user to zun from one to the other. produce mail-merced letters etc



SCRIPT 128

Price (disk) Distributors

00.003 Commodore Business Machines, 1 Hunters Road, Weldon, Corby. Northlants NN17 1QX (let 0534,205555)

Basically, this is Superscript 128 without the spelling checker and macro facility, and very good value at that. Interestingly, in shows its ancestry in the fact that Superbase can be accessed from within it, so if spelling is not your problem, and you don't need macros, the combination represents something of a bargain

MICRO-CLERK

Price (dlsk) Distributors

000 000 Commodore Business Machines, 1 Hunters Road, Weldon Carby. Northants NN17 1QX (tel 0536-205555)



Instal reaction to this new product is that it is one of the best "integrated" packages to come on to the market Unlike most of those which adopt that somewhat overhyped capability, this is more accounts oxiented, containing within it a cash accounts module that alone would be well worth the price of the package

It also contains a modest word processor with mail metec, database, and equally modest spreadsheet (26 columns by 52 rows) and what is known as a jotter, for writing (and printing, if required) notes, memos, etc. A nice touch is the ability to

Precision Software's

for your Commodore 128



Travor Doherty Commodors Horizons July 1985

What is Superscript?-

Superscript combines word processor, spelling checker calculator and maintenage facility, all in one package. So Superscript gives you all the tools you need to produce high quality reports, tables, lists, perscript calculators and even labels. 350 000 copuse worldwide so you know you can rely on it

Simple for the beginner

llyou are a newcomer to word processing. Superscript's simple command me by to a small sease.

Each command is a single word, and for each command there is an autra line of

Once you are more territor with Superscript, you can bypass the manus. Powerful for the experienced user

Superscript also gives you the ability to cutwork down to a resimismostly storing your own command sequences or last on engla keys. This means that with a single keystroke you can reproduce commonly used phrases or multi-live addresses tree.

Editing options

Supersongly great you all the existing options of a business style word processor with full block manipulation for cut and paste, overtype or text meeting modes search. search, case ehitiş for single words or larger blocks of text. And much more

Good with numbers

Suparscripte love you to extend your adoing tins up to 240 columns for wide documents like knancial statements, and with decimal satis if all asy to enter Superscript is complate set of calculator functions can be used interactively or Superservor scorrighes service conditions removed and ocument. Apart from the usual mathematical functions like add subtract multiply, divide and percentages you

Good with spelling, too

The built-in spelling checker goes right throughlyour tast, checking the unique words against kit dictionaries, and appring at each one I does not recognize. You have the option to correct the error learn the new word

Mailings with Superscript

Parsonalizad mylánga are easy with Superscript. You can ensar the data manually or

Attention Easy Script users!

If you re an Easy Sonot user then Superscript is the abvious choice. With its

The Programmable For sheer quality and professionalism. Superbase is ine class of its own.

Easy to get started -The first thing you if notice about Superbase rethal superb 230 page owner is

The fullpoid section takes both less-time and expensioned users right from first elegal through accomplished programming white the reference section is a model of conspherence. You it empty the manual is any office, its plentful sustrations and

Easy to use -

You it soon be needy to set up your own tring systems. business miormation professional data inscords of all sinds. You design your record layout right on the screen, a sucrify as you wish it to look, with helpful on-screen asplanations never.

With the layout mipice, you can then use Superbase abuilt in commands to enter change or disets indevoted records. Once you have built up a life of records, you can saled, some and output date sealth as you need it. To beginwith, you it be accessing Superbase commands inhough manus. The menually adjourties by step to this

The hidden power-

A sign become more lamiliar with Superbase you I want testar ways of accessing commands. One way is through the command line. Any sequence of menu options The Butth's is just the beginning The resipower of Superbase is that you can string any number of these of

the margin in supersort in your arriving in your own the supersort to form complete programs. When writing programs, not only do you have access to the dozens of you and Superbase commands, you can also use that

This capability torns a straightforward data management system into a Developing complex applications for yourself becomes a realistic proposition

The integrated office Superscript and Superbase will actually load into the computer a memory logethal

* Entre machine-language program is memory-resident

No need for swapping or reloading Built in single driva back-up usity

Searches may be up to 127 finide deep sorts up to 34 fields desc

Allows inlong across saparata files

Also available on Commodure 84, Plus 4, Atari 800XL, Atari 130XE, Apple //c and Apple //c



Suitable for all ages, Supertype guides like An endlessly petient luter helps you to



130XE PLUS 4 78 95 Supertype (Dlak) Supertype (Cese) anciose cheque/P O for S

Chargerry Access Visa

Address

incorporate a special message in the powerup screen as yon sign off, so that it would be possible to put in a reminder to do something the next day. Full review next month

COMPANY PAC 1-2-3

Price (disk): Distributors:

by February

£98 95 Impex Software Ltd. Metro House, Second Way, Wembley, Middlesex HAP 8TY. (tel: 04-900 999)

(tel: 01-900 0)
Format Disk

An excellent accounts package already reviewed in its 64 version, this 128 version is claimed to be fister than the original and also now incorporates payroll. Not ready at the time of writing but expected to be out

Almost tree CP/M soffware

Though good business software that takes advantage of the increased memory of the Commodere 128 is beginning to come on the market, it is the machine's capitality to handle CP/M which will attract many

people's strension. After all, when the specific 128 programs can be numbered on your fangers and thumbs, CPM offers the only real area where the machine has ny serous advantage over the cheaper and well established 64 Last month, we pointed to the fact that there is no a wild lot of powerful proprietary CPM software, often bundled with machines like the transportable Obborn and Kaypro mackines, which ought to run on the

But even second-hand, such powerful software is likely to set you back something the wrong side of £100. However, it is possible to get really powerful programs for only £2 plus the cost of a disk, if you join one of the organisations distributing what is called "public domain" software. You can even save yourself the cost of membership fee, postage and disk by getting it via the Bulletin Board of the Public Domain Software Library - though in this case, you should budget for quite a phone bill, since the Board operates at 300 baud, taking about 15 minntes to download a reasonably small program to yon over the phone lines.

Software Sources

What is "poblic domain" influence Weil, if you are a member of KPUO5, you'll if you are a member of kPUO5, you'll grobably know the answer to that question. It's been making available Commodore-format programs free to its members for some years. And rumous has it that they're now to start making CPUM offware available to members under this offware available to members under this objects. There is also a specialist UK history of the program who have a meridial history of from your history.

However, probably the biggest range of such "free" software is that available from the guy who runs the above-named Bulletin Board, Rod Smith, who has over 1000 double-sided dasks available, and all for a couple of quid each (£1 50 if you order more than tea). And, as I say, no manharahan for

Not all of these are suarable for the 128's. CPM mode, of course And, best in mind, the shalks und to be double-saded, which the shalks und to be double-saded, which means that if you are going to use them on a 1570 drive, which only handles single-saded dasks, you'll need to have each dask unsidered on to two of your dasks. For each programs, which may need to use overlays to overcome the intrinsic 64th could be a robblem of the course of the country of the country

Another consideration is that most "proper" CP/M machines tend to have two disk drives, and many programs

Downloading software

Anyway, back in public domain software. For a uster of the sort of things available, and if you have a modem statched to you computer, you might like to try accessing Rod Smith's Bollient Board. (You can do this if you've only got a 64, of coarse.) You'll get it on 0342-3156-36 and you'll need to be configured for 300 band sendirective. 7 data lats, one stop bit, even

parity. You'll also need some kind of TTY software. There's a sample TTY-type program available on Compunet

program available on Compunet
Since the range of software is so large,
the most uncful thang to do it to send Red a
large self-addressed envelope with 26p in
samps and sak for a complere citalingue
You'll see he has lots of useful thangs like
dlase II utilities, which can make that
program even more useful, and even a
lattle frendly.

Public Domain Software

Library, 138 Hollye Road, East Guinstead, Sussex RH19 3EA, 161 (voice calls) 0324-313883 Independent Commodore Products Users' Group, 30 Brancoster Road, Newbury Park, Illoud, Essex 162 TEP. 1el: 01-597 1229

UK CP/M Users' Group,

72 MIII Pond Hawley.

Dartford, Kenf.

A look at dBase II

Affase II at probably the most famous CP/M package you can get for your 120 It there soo things with the quality illustrious WeedSur (reviewed last month); in some cost character last product the most product of the product of the

handling and curror control commands. It is also 8 Hz Milkendly,
In fact, companed with BirdSabary interactions are greated as greater as produced to the fact and the second and produced to the second property of the second prompts. After the united copyright daughty, you'll be presented with possibly the least informative prompt in the world of computers. After that, things get a bit more freedly. The commands are fairly obvious create, to set up a new database, set, to set up a new database and set up and the set up a new database and set up a new database a

setting up a dambars. This is not of these programs in which you have to be very clear in your raind about what you want it is do before you start using it. You need to work not thelength of each field in your record, deced whether it is no be a plan to runnerly, how line it will be (including decemal points and leading $+\alpha = \sup_{i \in \mathbb{N}} \int_i f(x_i)$ mannered, set. Names information points and leading $+\alpha = \sup_{i \in \mathbb{N}} \int_i f(x_i)$ and up the properties of the properties of

There is also a third type of field, called a logical field, which requires a single-letter input, either Y or N (for yes or no) or T or F (True/Fisle). The response can be either upper of lower case. Field names cannot be longer than ten character long and must not contain spaces, though ofter alphanumenc keys can be med. They will be daughedyed or capstake even if they are entered in lower case.

The maximum number of characters per record is 1000, which may be spread across up to 32 different fields. The maximum number of records you can have in any single database is 65535 — but it's only fair to admit that you'll run out of disk space long before that.

Dozens of books have been written about dBase II, so I can't hope to cover us complenties in a few handred words. Ben believe me, at it powerful, and its complements are worth mastering if you need that kind of power Even second-band, it's militely to come cheap (about £150 seems to be par for the course), but it's sworth it.

You may get incky and be offered a disk on its own, sans manuals. Well, as I've said, there are plenty of books available (my favourite is M. de Pace's Warkor muh dBase H. L.7.95 from Granada) so if the price is low enough, you may be getting youtself a bargain. But don't blame me if you get lost.

Using dBase II without adequate documentation is worse than adventure gaming - and it can be far more frustrating.

Tommy's Tips Tommy's Tips Tommy's Tips

Key question

Dear Tommy, Could you please tell me if it is possible to program a particular key, if when the power is turned off and powered up again, it will still he in the memory. Also please could you tell me how

Also please could you tell me it is possible to play music while loading a program on the 64.

While it is possible to program may ket to produce a particular strung of characters, por cause a jump to a machine-one rousine, or cause a jump to a machine-one rousine, or cause a jump to a machine-one rousine characters and the computer. Send say key deficition dene by the user must reside in RAM, this sumavedide. The only way rousing it is a to a transpectific to the only way rousing it is a transpectific to the only way rousing a sumaved of the only way rousing it is a transpection for the only way rousing it is a transpection for contracting in RAM, the composition for contracting it is characteristic in the contraction of the

Playing music while loading a program is not up possible for you also wrate pure own loader routines in machine-code. The music is played by using interrupate, which is generated by the computer every which is generated by the computer every 50th of a second, they can be made to cause a jump to a user written mic returns before carrying on with the normal house-keeping tasks. Unless you are a warrant amenture code a sud using interrupate, a should leave this non to the software houses.

16 Spirols

Dear Tommy, At present, I own a C16 computer, and have been reading your magazine ever since the day I bought the C18, (Good Friday).

I would like to ask "Tommy's Tips" how I can draw a spiral on the Cle? Many khanks for a great mag. Always glad to oblege, here is a program to draw a spinal that uses the built-in 'circle' command. By altering the value of SP in line 10 you can change it to draw any size of sural.

of spring 10 GRAPHIC1,1:SP = 8 20 FOR X = 1 TO 100 STEP SP 30 CIRCLE,150,100+SP/4,X,,0,180 40 CIRCLE,150,100-SP/4,X+SP/2 ,180,0 50 NEXT

Colour trouble

Door Tommy, I have just purchased the new CISS computer hut when I switched on, the TV serece was black and white. My TV is a Ferguson 14" colour, (the one which has been advertised on TV). I have used the TV with a Tandy Colour Computer and everything worked o.k. I've tried tuning the TV but It was still the same.

Can you advise me?
I assume that you are not using the



Ferginion TV/Manique inter you rate in remaing the TV II despite humage from our extreme of the picture to the other you can get no colour signal their as permit likely that the TV modulator or wides chips access to a colour monitor their chips in access to a colour monitor their chief in the composite wides output is produced colour picture. If not, then a is certainly a colour picture. If not, then a is certainly the wides chip that is at finit, if it does, then this indicates a modulator fault. Eather way. Suggest two contact your Eather way. Suggest two contact your

dealer who can test the computer and replace it if faulty

Just in case you have got a TV/Monitor and are using the composite video inputs, then check that your lead is connected to

then check that your lead is connected to pin 4 of the 8-pin DIN plug and not Pin 1; the latter produces only a LUM/SYNC signal, the colour being carried on Pin 6 (CHROMA signal) Using Pin 1 alone will produce a B&W picture even on a colour

Plus/4 Blues Dear Tommy, 1 have recently

acquired a Commodore Plus/4 and have found that I cannot get games for my computer in the shops in my area, Would Commidore 64 tapes or cartridges work in my Plus/4? I noticed in recent issues of Commodore User that there are no programs for the Physid and will there be any in the near future? 1 look forward to hearing from you. Unfortunately a lot of shops are not bothering to stock software for either the 16 or the Plus/4, presumably because they are afraid if they get withdrawn they will end up with unsold stock. However, all is not lost because you can order software for all Commodore machines from SOFTPOST, Cammodore's own software Whether you've got a technical problem on the 64 156 or Vic, fommy's at the ready with pearls of wisdom advice and information 30 on, write to him: Tommy's Tips, Commodare User, 30-32 Forring don Lane Landon EC1R 3AU T_a

sales dept. The telephone number is 0536 63212 and they can send you a cuialogue which includes a range of 67 games/adventure programs for the 16 &

As for using software or curringes designed for the 6,5th ensures is they are completely uncompatible. Even if you could get programs to load, they cannot be converted easily since the Plua/4 has no spitted, different sound fixelities, a different Bosic and a tossilly different money maps. As for programs appearing the programs of the programs of the programs of the programs of the programs for publication is come in all

Protection problem

Deer Tommy, I am writing a quiz game for my IB. I am thicking of putting it on general release to the public. I am very concerned about security in the game. To put a "Holographic" sticker on the front will mean a lot of fuss and expense. I tried a Vie poles on it to disable the ron stop key. It did the job, but it will not be the stop of the stop of the gratefyel were used. In there a way to disable the run stop key and is there as easy way to make the game

Tomy's Tips Tommy's Tips Tommy's Tips Tomm

auto-run? Answer will be absolutely appreciated. To disable the STOP key on the C16,

POKE 806,115 To get a program to Autor-run you can use the same method as for any other Commodore machine If you have a program that LOADs a second program, then the second program will use as soon as it is loaded into memory. You must therefore create a short loader program which draibles any keys, sets a few values to memory for later checking to ensure a way can you and then LOADs in the

The thing to ensure is that the Basic positions are set correctly for the second program. To do this, load the main program into memory and PEEK addresses 45 & 46 Then put the values you obtain into the following line in your loader program: 10 POKE 45, N:POKE 46, Y:CLR where X and Y are the values from the PEEK:

Don't think that this is in any way footproof, since software houses have spent thousands of pounds trying to make their games secure from copying It is almost more efficient to have a low selling price than spend a lot of time and effort on protecting it totally. The cheaper the software the less incentive there is to spend time irying to copy it

Dynomic duo

Dear Tommy, I own a Vic-20 (USA model) and a Commodore 84 (Eur opean model). Convinced that the Vic-20 must still have some use I tried to use It as a terminal for the C84, using the programs in the 'Programmers Refer ence Guide'.

On the user port of each machine I comment of common, Tx and Rx lines, crossing the Tx and Rx lines, crossing the Tx and Rx lines between machines such that the Tx of the C64 was attached to the Rx of the Vic & vice-versa. As 1 understood the program, characters typed on the kryboard of one typed on the kryboard of one printed on the screen of the ather machine. Also—no succession.

Checking with a scope revealed that both machines transmitted signals at the same haud rate but apparently oothing was being received. Please could you help? There are two possible reasons for the noncommunication. The most likely is that you have not connected the Received Data line to PBO (pin C on the User port) as well as to FLAG2, in other words, pins B and C must be connected together before you can receive data correctly. If you have got the connections correct (or if you still can't communicate after linking B and Cl then the problem is one of timing You mention that the Vic is a USA model; this will have been set up to rue on a slightly different clock frequency to the UK standard. All timings will be affected and if you apply the system frequency equations you will find that there will be about a 4% difference in the actual band rate between the US and UK models.

It should not be a problem at low band rates, but may cause problems as the band rate is increased. If you cannot get any comms even as 300 band, try dropping down to 50 band, but Amging line 100 to read as follows:

100 OPEN2,2,3,CHR5(1+32) +

CHR\$(32 + 128)

Pin connections

Dear Tommy, I have had a \$4 for the past year connected to a KAGA green screen monitor and radio, by a 5 pin din plug and phono plugs, with perfect results.

I have just bought a Vic-20 for my son for Christmas, to allow him an introduction to computing (also to keep him off the 64 at present).

I have also another KAGA monitor and have got a problem getting a good picture on either of them with the Vic. This problem is that the char acters are being pulled to one side and it is not possible to adjust it out. Would you please advise the pin connections to up on a 5 pin did plug for the monitor and audio output, also do you know of any companies still supplying Ram packs for the Vic 20 at 10 pin.

Your problem with the screeo display is that the output from the Vic is not high enough to drive a mounter freedly, nearly all Vices suffer from this problem. About the only way round it is to get, or make, a small video amplifier to boost the signal. The pin connections are the same as for the 54 so you can use the same leads.

There are still a few companies supplying Vic RAM packs, Zero Electronics (0493 842023) have their own, while the Morgan Camera Company (04-536 1135) may still have stocks of Commodore Ram packs as very low prices.

64 Comms

Diese Tommy, I wonder if you can belig me with a small grobines on with I am in the process of writing a wid-I am in the process of writing a communications program, at the start of which is preduced a starting selected things like Boad rate, parity, stop bits etc. Unfortunately, such the CPUZN in the program is when the CPUZN in the program is the test of the starting of the process of the process of the program of the process of the pr

Is there any way of protecting this

area of memory so as to allow the nominated variables to be used? Your comments and suggestions would be very welcome. The top 512 bytes of memory are

automatically cleared by the OPEN-clin-2 command and must therefore not be part of the memory available to Base. This is because opening an Ballera Channel allocates two 256 byte DPEN-clin-2 command those performs an intrass. CLR, thus destroying any ariables that have already been created. This means that you must OPEN the Channel before doing any impust from the channel before doing any impust from the

After you have OPENed the channel you can still after the baud rate ere POKEing the values into the Control Register (address 659) and the Command Register (address 660).

Another method might be to give a number of alternatives in a menu and then use the selected oumber in an ON X GOTO (or GOSUB) statement which then actions a different OPEN statement for each choice.

Colour range

Dear Tommy, If you run the following program for the C16 you'll see that the blue colour will cover a bit of the green. Pd like to know if it's possible to avoid that. Pd like to thank you for a very great mag!

10 GRAPHIC 1,1, 20 BOX 1,100,35,220,165

30 DRAW 1,100,100TO220,100 40 COLOR1,6:PAINT1,160,99 50 COLOR1,7:PAINT1,160,101

Your problem is due to the fact that in unfirmal here mode you can only have two colours (foreground and background) in any 8-8 branter black* on serece Because you are trying to have a colour blocks, the second foreground colour replaces the first in the overlap area to overcome the problem you must use the multi-colour heres mode, which allows you to have up to four colours in any you.

By sating Black as the foreground colour and Green and Blue as the two "authi-colours" your program can be rewritten to not only avoid the overlap problems, but to leave the firame around the box as well Note in the penalty for using multi-colour mode is that the horizonal resolution in hirved, so all the 'X' corections in hirved, so all the 'X' cofoliousing most be scaled accordingly. The following most be scaled accordingly. The following the contractive and the above we resulter, demonstrative all the above

10 GRAPHIC3,1 20 BOX1,50,35,110,165 30 DRAW1,50,100TO110,100 40 COLOR2,6:PAINT2,100,99

46 COLOR2,6:PAINT2,166,99,1 50 COLOR3,7:PAINT3,106,161,1 60 COLORI,1 COMMODORE 64 DATABASE - DATAFILE

estul options include print sit/solective racoads delets among some lead copy alphanomeric soil cast delined helds memory check total nomero helds omprehensive ersy to ese instructions. CEM 64 (compiled):

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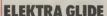
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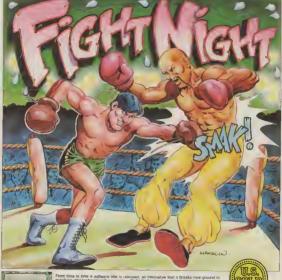


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